

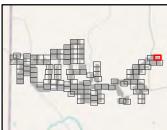
See Sheet 105

South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Figure 7: Delineated Wetlands and Streams

- Wetland Flag
- Datapoint Wetland
- Wetland Continues
- ---- 5ft Contour
- Delineated Wetland w/ State & Federal Jurisdiction
- Parcel Boundary
- Delineation Study Area



Sheet 106 of 107

Notes: 1. Basemap: NYSDOP "2016" orthoimagery map service. 2. This map was generated in ArcMap on January 21, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



See Sheet 107 See Sheet 107

See Sheet 106 See Sheet 106

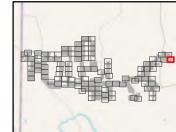


South Ripley Solar **Project**

Town of Ripley, Chautauqua County, New York

Figure 7: Delineated Wetlands and Streams

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Sheet 107 of 107

Notes: 1. Basemap: NYSDOP "2016" orthoimagery map service. 2. This map was generated in ArcMap on January 21, 2021. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



APPENDIX B Routine Wetland Determination Data Sheets and Stream Inventory Forms

Project/Site:	1902	0 - South Ripley		City/Cour	ntv:	Chautaugua	County	Sampling Date:	06/29/2020
Applicant/Owner:		·	ectGen LLC	,	,.	•	ate: New York		001-1U
Investigator(s):	Matt Si	padoni & Sam Parker		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, ter			Local re	,	ave, convex, n		Flat	Slope	e (%): 2-5
Subregion (LRR or MLF		LRR R MLRA 139	Lat:		18072157	Long:	-79.661048	•	` /
Soil Map Unit Name:	, <u> </u>		Erie silt loam				NWI classification		
Are climatic / hydrologic	c conditions on	the site typical for this t			X No	(If no,	_ explain in Remark	s.)	
Are Vegetation			•		d?		cumstances" prese	•	X No
		, or Hydrology		roblematic	? (If needed, expl	ain any answers in		
SUMMARY OF FII							•		
Hydrophytic Vegetati		Yes	No X	· · ·	Is the Samp		<u> </u>	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?		Yes X	No X	_	within a We		Yes	No X	
Wetland Hydrology F		Yes	No X	_		nal Wetland Site			_
Trouding Try drology T				_	you, option				
Remarks: (Explain al	Iternative proced	dures here or in a sepa	rate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
, ,		required; check all that	annly)				Secondary Indica	ators (minimum of t	two required)
Surface Water (required, orlean und	Water-Staine	d Leaves (R9)			l Cracks (B6)	wo required)
High Water Table	` ,		Aquatic Faun	,	20)			atterns (B10)	
Saturation (A3)			Marl Deposits				Moss Trim I		
Water Marks (B			Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depos	,		Oxidized Rhiz			ots (C3)	Crayfish Bu		
Drift Deposits (E			Presence of F		-	15 (55)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•		Recent Iron F			(C6)		Stressed Plants (D	
Iron Deposits (E		_	Thin Muck Su			,,		Position (D2)	-,
Inundation Visib	•	agery (B7)	Other (Explai	, ,			Shallow Aqu		
Sparsely Vegeta			, ,		,			aphic Relief (D4)	
_ ` ` ` `							FAC-Neutra	l Test (D5)	
Field Observations:		N V	D 11 (" 1	,					
Surface Water Prese		es NoX							
Water Table Present		es No X	. ' '	· —				.,	N. V
Saturation Present?		es NoX	Depth (inch	es):		wetiand Hyd	Irology Present?	Yes	No X
(includes capillary fri	inge)								
Describe Recorded [Data (stream ga	uge, monitoring well, a	erial photos, p	revious ins	spections), if a	available:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:001-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	111011110 022,171011, 011710.
1.	7000101			Total Number of Dominant
		-		Species Across All Strata: 1 (B)
				openes Auross Air Grand.
3. 4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
				That Are ODL, I AGW, OF I AG. 0.0 (105)
7.		_		Prevalence Index worksheet:
1	0	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10161 00	51	OBL species 5 x 1 = 5
				FACW species 0 x 2 = 0
			- ——	FAC species 15 x 3 = 45
2		_	- ——	FACU species 60 x 4 = 240
3. 4.			- ——	UPL species 0 x 5 = 0
			- ——	Column Totals: 80 (A) 290 (B)
				Prevalence Index = B/A = 3.63
		_		
7		- Total Cav		Hydrophytic Vegetation Indicators:
(Distriction)	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	40	Va	54011	2 - Dominance Test is >50%
Taraxacum officinale / Red seeded dandelion, Common dan		Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Poa pratensis / Kentucky blue grass	50	No	FACU	4 - Morphological Adaptations (Provide supporting
3. Trifolium repens / White clover	30	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Ranunculus acris / Acrid buttercup	15	No	FAC	_ , , , , , , , , , , , , , , , , , , ,
5. Plantago lanceolata / Ribwort, English plantain	10	No No	FACU	¹Indicators of hydric soil and wetland hydrology must
6. Carex vulpinoidea / Fox sedge, Brown fox sedge	5	No	OBL	be present, unless disturbed or problematic.
7				50 p. 55511, 4.11555 4.1151 2.1. p. 1215
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	120	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 001-1U

Depth	ription: (Describe to the Matrix			x Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 4/1	100					Loamy clay			
8-18	10YR 5/2	85	10YR 5/8	15	C	M	Clay			
				_						
				_						
	- <u> </u>			_						
				_						
				_						
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils³:
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149I)) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (Li	-
	istic (A3)		Loamy Mucky N			(1400)				(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		(=: \: I L)				37) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	
	d Layers (A5) d Below Dark Surface (A	\11\	Redox Dark Su						ce (S9) (LRR	
		111)	Depleted Dark Su							(LRR K, L, R)
	ark Surface (A12)							•	` '	
	Mucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	-10)
	Matrix (S6)								ark Surface (TF	-12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Otner	(Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
	_ayer (if observed):									
Type:									., .,	
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020	0 - South Ripley		City/Cou	ntv:	Chautauqua	County	Sampling Date:	06/29/2020
Applicant/Owner:			nectGen LLC	,		•	ate: New York		001-1W
Investigator(s):	Matt Sr	padoni & Sam Parker		Section.	Township, Rar	-		wn of Ripley	
Landform (hillslope, teri	•		Local r		ave, convex, n		Concave		e (%): 0-5
Subregion (LRR or MLF	RA): I	LRR R MLRA 139	Lat:		18059048	-	-79.661156		m: NAD 83
Soil Map Unit Name:	,		Erie silt loam			5	NWI classification		PEM5E
Are climatic / hydrologic	conditions on t	the site typical for this			X No	(If no,	explain in Remark		-
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		•			ain any answers in		
SUMMARY OF FIN	_						•		
Hydrophytic Vegetati		Yes X			Is the Samp		,p =		
Hydric Soil Present?		Yes X	No No	_	within a We		Yes X	No	
Wetland Hydrology P		Yes X	_ No	_		nal Wetland Site		Wetland 1	_
wettaria riyarology r			_ 110	_	ii ycs, optioi	iai vvetiana oiti		vvctiana i	
Remarks: (Explain al Mowed		dures here or in a sepa	arate report.)						
HYDROLOGY									
Wetland Hydrology	Indicatore:								
		required; check all tha	t apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A		equired, cricck all tria	Water-Staine	d Leaves ((B9)			l Cracks (B6)	two required)
High Water Tabl	,	_	Aquatic Faun		(20)			atterns (B10)	
Saturation (A3)			Marl Deposits				Moss Trim I		
Water Marks (B		_	Hydrogen Su	, ,	(C1)			Water Table (C2)	
Sediment Depos	•	X	Oxidized Rhiz			ts (C3)	Crayfish Bu		
Drift Deposits (E	` ,	_	Presence of I		_	,		/isible on Aerial Im	nagery (C9)
Algal Mat or Cru	•	_			in Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (B	(5)		Thin Muck Su	urface (C7))		X Geomorphic	Position (D2)	
Inundation Visib	le on Aerial Ima	gery (B7)	Other (Explai	n in Rema	irks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Si	urface (B8)					Microtopogr	raphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Prese		es No X	Depth (inch	ee).					
Water Table Present		es No X	- ' '		-				
Saturation Present?		es No X	Depth (inch	· —	-	Wetland Hyd	rology Present?	Yes X	No
(includes capillary frin		,3 NOX	_ Deptil (illeli			wettand riya	rology i resent:	103 <u>X</u>	
(molades capillary ini									
Describe Recorded D)ata (stream gai	uge, monitoring well, a	aerial photos, p	revious in	spections), if a	vailable:			
Domarka									
Remarks:									

EGETATION - Use scientific names of plants.				Sampling Point: 001-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
	%Cover			That Are OBL, FACW, or FAC: 3 (A)
	%COVE	Species?	Status	T (al Nicosh and D paning at
1				Total Number of Dominant
2				Species Across All Strata: (B)
3				
l				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B
				Prevalence Index worksheet:
·	0	= Total Cove	/er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		_	J1	OBL species 65 x 1 = 65
				FACW species 30 x 2 = 60
				FAC species 0 x 3 = 0
				· — — — —
				UPL species 0 x 5 = 0
				Column Totals:105 (A)165 (B
·			-	Prevalence Index = B/A = 1.57
			-	
		T-4-1 Co	-	Hydrophytic Vegetation Indicators:
<u>-</u>	0	_ = Total Cove	er	X 1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Phalaris arundinacea / Reed canarygrass, Reed canary gras	30	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Eleocharis acicularis var. acicularis / Needle spike rush	30	Yes	OBL	
Carex vulpinoidea / Fox sedge, Brown fox sedge	25	Yes	OBL	4 - Morphological Adaptations (Provide supporting
Juncus effusus / Common bog rush, Soft or lamp rush	10	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
	5			
Trifolium repens / White clover		No No	FACU FACU	¹ Indicators of hydric soil and wetland hydrology must
Taraxacum officinale ssp. officinale / Common dandelion	5	No	FACU	be present, unless disturbed or problematic.
		<u> </u>	<u> </u>	Definitions of Vegetation Strata
			·	Dominion of rogeration
			-	T (14/2-disclosed 2 in (7.6 cm) or more in diameter at
0. 1				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1			-	breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	105	_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
·				size, and woody plants less than 3.28 ft tall.
			·	Woody vines - All woody vines greater than 3.28 ft in
·		-	-	height.
·			-	Height.
· <u> </u>		Total Cov		Hydrophytic
	0	_ = Total Cov	er	
				Vegetation
				Present? Yes No
emarks: (Explain alternative procedures here or in a separate r	eport.)			

SOIL Sampling Point: 001-1W

Depth	Matrix			x Features			ce of indicators	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10YR 4/1	95	10YR 5/8	5	С	PL	Loamy clay			
4-18	10YR 2/1	90	10YR 5/8	10	С	PL,M	Clay			
						,				
						,				
								-		
,						_				
				-				-		
ype: C=Con	centration, D=Depletion	n, RM=Redi	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=Pc	ore Lining, M=Ma	trix.
ydric Soil In	udicators:						Indicators	for Proble	matic Hydric So	nile³·
Histosol (Polyvalue Belov	v Surface (St) /I DD D	MI DA 1401			(LRR K, L, ML	
	•									-
	ipedon (A2)		Thin Dark Surfa			(1496)			dox (A16) (LRR	
Black His			Loamy Mucky N		LKK K, L)				t or Peat (S3) (L	KK N, L, K)
	Sulfide (A4)		Loamy Gleyed I					-	') (LRR K, L)	DD K IV
	Layers (A5)	۸ 4 4)	X Depleted Matrix						Surface (S8) (L	· •
	Below Dark Surface (A	411)	Redox Dark Sur						e (S9) (LRR K,	
	rk Surface (A12)		Depleted Dark S					-	Masses (F12)	
_ ′	ucky Mineral (S1)		Redox Depress	ions (F8)					lain Soils (F19)	
	eyed Matrix (S4)								(MLRA 144	A, 145, 149B)
Sandy Re								Parent Mate		
	Matrix (S6)								rk Surface (TF12)
Dark Surf	face (S7) (LRR R, ML	.RA 149B)					Other	(Explain in	Remarks)	
ا مالممال	nydronhytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problem	atic.			
indicators of I			, 0, 1			•				
Restrictive La	ayer (if observed):									
Restrictive La	ayer (if observed):								V V	
Restrictive La	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes X	No

Project/Site:	19020 -	South Ripley		City/Cou	inty:	Chautauqua	County	Sampling Date:	06/29/2020
Applicant/Owner:			nectGen LLC	. ,	·	St	ate: New York	· · ·	002-1U
Investigator(s):		doni & Sam Parker	-	Section,	Township, Rai	nge:	To	wn of Ripley	
Landform (hillslope, terrace				•	cave, convex, r		Convex	· · ·	e (%): 3-5
Subregion (LRR or MLRA)		R R MLRA 139	Lat:		18420463	Long:			`
Soil Map Unit Name:			Erie silt loan				NWI classificati		
Are climatic / hydrologic co	onditions on the	site typical for this	s time of year?	Yes	X No	(If no	– , explain in Remarl		
Are Vegetation,			•				cumstances" pres	•	X No
Are Vegetation,							ain any answers in		
SUMMARY OF FIND						•	•	•	
		-					,p = 1 ta		
Hydrophytic Vegetation I Hydric Soil Present?	Present?	Yes Yes			Is the Samp within a We		Voo	No. V	
*	ont?			_			Yes	NoX	_
Wetland Hydrology Pres	ent?	Yes	NO	_	ii yes, opiio	nal Wetland Sit	e ib		
Remarks: (Explain alterr	native procedur	es here or in a sep	parate report.)						
HYDROLOGY									
Wetland Hydrology Ind	dicators:								
Primary Indicators (minir	mum of one rec	quired; check all th	at apply)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A1))		Water-Staine	d Leaves	(B9)		Surface So	il Cracks (B6)	
High Water Table (A	A2)	· 	Aquatic Faur	na (B13)			Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposit				Moss Trim	Lines (B16)	
Water Marks (B1)			Hydrogen Su	ılfide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhi	zospheres	on Living Roc	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)			Presence of	Reduced I	ron (C4)		Saturation '	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust ((B4)		Recent Iron I	Reduction	in Tilled Soils	(C6)	_	Stressed Plants (D	
Iron Deposits (B5)			Thin Muck S	urface (C7	<u>'</u>)		Geomorphi	c Position (D2)	
Inundation Visible of	on Aerial Image	ry (B7)	Other (Expla	in in Rema	arks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	d Concave Surfa	ace (B8)	_				Microtopog	raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present?	Vec	No X	Depth (inch	P6).					
Water Table Present?	Yes	No X							
Saturation Present?	Yes	No X	Depth (inch	· —		Wotland Hye	Irology Present?	Yes	No X
(includes capillary fringe		NOX	_ Deptil (illici			wettand riye	ilology Fresent:	163	NO
(molades capillary innige	<i>)</i>								
Describe Recorded Data	a (stream gauge	e, monitoring well,	aerial photos, ¡	previous in	nspections), if a	available:			
Remarks:									
Tromanic.									

/EGETATION - Use scientific names of plants.				Sampling Point:002-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	•
Tree Chrotium (Plat sine) 20				That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	7
1.				Total Number of Dominant
2		_	- 	Species Across All Strata: 5 (B)
3				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
1				FAC species 0 x 3 = 0
2. 3.				FACU species 90 x 4 = 360
4				UPL species 0 x 5 = 0
4				Column Totals: 90 (A) 360 (B)
5				Prevalence Index = B/A = 4.0
6				Prevalence index – B/A – 4.0
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
Bellis perennis / English lawn daisy, English daisy	30	Yes		
2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	25	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Trifolium pratense / Red clover	25	Yes	FACU	4 - Morphological Adaptations (Provide supporting
4. <i>Trifolium repens /</i> White clover	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Plantago lanceolata / Ribwort, English plantain	20	Yes	FACU	
^			TACO	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7.				
8		_		Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				
3				Woody vines - All woody vines greater than 3.28 ft in
4				height.
4		- Total Cav		Hydrophytic
	0	_ = Total Cov	er	1
				Vegetation
				Present? Yes No X
Demontos /Funtain alternative procedures have as in a consu	4			
Remarks: (Explain alternative procedures here or in a separa	te report.)			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

(inches) Color (moist) % Type¹ Loc² Texture Remarks

Depth	Matrix		Redox	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-10	2.5Y 4/4	100					Loam		
									_
									
	-	·							
		· 							
									_
									<u> </u>
							-		
									_
¹Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locatio	on: PL=Po	re Lining, M=Matrix.
Hydric Soil Ir	ndicatore:						Indicators f	or Proble	matic Hydric Soils³:
-			Debarelus Delev	Cumfooo (Ci	2) // DD D	MI DA 440E			•
Histosol			Polyvalue Belov						(LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			149B)			lox (A16) (LRR K, L, R)
Black His			Loamy Mucky N		(LRR K, L)				or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark S	urface (S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyval	ue Below	Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Redox Dark Su	rface (F6)			Thin Da	ark Surface	e (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S						Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depress					-	ain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)			(. 0)					6) (MLRA 144A, 145, 149B)
	edox (S5)							rent Mate	
	Matrix (S6)								k Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other (Explain in	Remarks)
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.		
Restrictive L	ayer (if observed):								
Туре:									
Depth (inc	ches):						Hydric Soil Pre	sent?	Yes NoX
Remarks:	O								
(Gravelly								

Project/Site:	19020 - South Ripley	City/County:	Chautauqua County	Sampling Date: 06/29/2020
Applicant/Owner:	ConnectGen LLC	·	State: New York	
Investigator(s):	Matt Spadoni & Sam Parker	Section, Township, Ra		own of Ripley
• ' '	c): Bowl shaped depression Local			· /
Subregion (LRR or MLRA):			Long: -79.662372	' ' '
Soil Map Unit Name:			NWI classificati	
· · · · · · · · · · · · · · · · · · ·	ions on the site typical for this time of year?		(If no, explain in Remar	
, ,	<i>5</i> .		Are "Normal Circumstances" pres	,
	, or Hydrologysignilican		(If needed, explain any answers in	
			•	·
	SS - Attach site map showing sar		ons, transects, important	reatures, etc.
Hydrophytic Vegetation Pres			pled Area	
Hydric Soil Present?	Yes <u>X</u> No	within a W	etland? Yes X	No
Wetland Hydrology Present?	Yes <u>X</u> No	If yes, option	onal Wetland Site ID:	Wetland 2
Pomarke: (Evalain alternativ	e procedures here or in a separate report.)			
itemarks. (Explain alternativ	e procedures here of in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicat	ors:			
	n of one required; check all that apply)		Secondary Indic	eators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)	X Surface So	
High Water Table (A2)	Aquatic Fau	` '	X Drainage P	
Saturation (A3)	Marl Deposi			Lines (B16)
X Water Marks (B1)		ulfide Odor (C1)		n Water Table (C2)
Sediment Deposits (B2)	·	izospheres on Living Ro		
Drift Deposits (B3)	 -	Reduced Iron (C4)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Tilled Soils	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck S		X Geomorphi	` '
Inundation Visible on A		in in Remarks)	Shallow Aq	
	' 	iiii iii Reiliaiks)	 -	
Sparsely Vegetated Co	nicave Surface (Bo)		X FAC-Neutra	raphic Relief (D4)
			X FAC-Neulia	ai lest (D3)
Field Observations:				
Surface Water Present?	Yes No X Depth (incl	nes):		
Water Table Present?	Yes No X Depth (incl			
Saturation Present?	Yes No X Depth (incl		Wetland Hydrology Present?	Yes X No
(includes capillary fringe)				
(e.ace supa.)ge)				
Describe Recorded Data (str	ream gauge, monitoring well, aerial photos,	previous inspections), if	available:	
Remarks:				

Species Across All Strata: 1 (B)	EGETATION - Use scientific names of plants.				Sampling Point:002-1W
Absolute Dominant Indicator %Cover Species? Status Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Percent of Dominant Species Th					Dominance Test worksheet:
Absolute Ominiant Indicator Species? Status Total Number of Dominant Species Across All Strate: 1 (B)					
Total Number of Dominant Species Across All Strata: 1 (B)		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FAC species 0 x 3 = 0 FAC species 0 x 4 = 0 UPL species 0 x 5 = 0	Troc Stratum (Plat size: 30)				Illidt Ale Obl., FACIV, OLLAC.
Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	1. (Plot size	%COVE	Species	Status	T (a) North an of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x1 = 75 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 75 (A) 75 (B) Frevalence Index BIA = 1.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S1.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S3.0 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in, (7.6 cm) or more in diameter at breat height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants regardless of size, and woody plants less than 3.28 ft ial. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation					
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	•				Species Across All Strata: (D)
That Are OBL, FACW, or FAC: 100.0 (A/B)					
Prevalence Index worksheet: Total % Cover of: Multiply by:					•
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75	5				That Are OBL, FACW, or FAC: 100.0 (A/B)
Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: Total % Cover of: Multiply by: Total % Cover of: Multiply by: Total % Cover of: Total % Cover of: Multiply by: Total % Cover of: Total % C	•				
Total & Cover of:	,				
Sapling/Shrub Stratum (Plot size:		0	= Total Cov	/er	Total % Cover of: Multiply by:
FACW species	Sanling/Shruh Stratum (Plot size: 15)			5.	OBL species 75 x 1 = 75
FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Myosotis scorpioides / Forget me not, Water forget-me-not 50 Yes OBL Scirpus atrovirens / Green bulirush 20 No OBL Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush (Provide supporting Problematic Hydrophytic Vegetation (Provide supporting Problematic Hydrophytic Vegetation Strata Uncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Uncus effusus / Common bog rush, Soft or lamp rush 6 No OBL Uncus effusus / Common bog rush (Provide supporting rush (
FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 or A - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines - All woody vines greater than 3.28 ft in height. D - Total Cover Hydrophytic Vegetation FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is > 50% X 3 - Prevalence Index = S.0 or X 1 - Rapid Test for Hydrophytic Vegetation D - Total Cover Science 1 and Science 1 and Science 1 and Science 1 and Science 2 and					· — — — — — — — — — — — — — — — — — — —
UPL species 0 x 5 = 0 Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Wysostis scorpioides / Forget me not, Water forget-me-not Scirpus atrovirens / Green bulrush 20 No OBL Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Problematic Hydrophytic Vegetation (Explain) Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL Problematic Hydrophytic Vegetations (Provide supporting Problematic Hydrophytic Vegetation) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.					
Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 O					
Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Column Totals: 75 (A) 75 (B) Prevalence Index = B/A = 1.0 Prevalence Index = B/A = 1.0 Hydrophytic Vegetation Indicators:	·				
Prevalence Index = B/A = 1.0					` ` ` ` ` ` `
D Total Cover Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° X 3 - Prevalence Index ≤3.0° A - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) Problematic Hydrophytic Vegetation* (Explain) Hyd	-				Prevalence Index = B/A = 1.0
Tree Woody vine Stratum Plot size: 30 = Total Cover Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 4 - Morp					
erb Stratum (Plot size: 5) Myosotis scorpioides / Forget me not, Water forget-me-not 50 Yes OBL Scirpus atrovirens / Green bulrush 20 No OBL Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL — 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.			Total Cov		Hydrophytic Vegetation Indicators:
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Myosotis scorpioides / Forget me not, Water forget-me-not 50 Yes OBL Scirpus atrovirens / Green bulrush 20 No OBL Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					
Scirpus atrovirens / Green bullrush 20 No OBL 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)		50	Yes	OBL	
Juncus effusus / Common bog rush, Soft or lamp rush 5 No OBL 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. 0 = Total Cover Hydrophytic Vegetation	Scirpus atrovirens / Green bulrush	20	No	OBL	
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Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	•				
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1					The state of the s
2					
2	1				
Voody Vine Stratum (Plot size: 30) Woody Vine - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	2				
Woody vines - All woody vines greater than 3.28 ft in height.			_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 1	/oody Vine Stratum (Plot size:)		_		Herh - All herbaceous (non-woody) plants, regardless of
Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation					
height. O = Total Cover Hydrophytic Vegetation		-	-		
0 = Total Cover Hydrophytic Vegetation	`- 				height.
Vegetation	·				
		0	_ = Total Cov	er	
Present? Yes X No					
					Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)					

SOIL Sampling Point: 002-1W

Depth	Matrix			Features			nce of indicator	,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 3/1	90	10YR 5/8	10	C	PL	Clayey loam	
		-						_
		-	-					
								-
								-
		-						
						,		
ype: C=Con	centration, D=Depletion	n, RM=Redu	iced Matrix, MS=Mask	ked Sand Gra	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
ydric Soil In	dicators:						Indicators	s for Problematic Hydric Soils³:
Histosol (Polyvalue Below	Surface (S	3) (LRR R.I	MLRA 149		Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	•	,		· —	t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			,		Mucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed N					Surface (S7) (LRR K, L)
	Layers (A5)		X Depleted Matrix					alue Below Surface (S8) (LRR K, L)
 Depleted	Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin I	Dark Surface (S9) (LRR K, L)
Thick Dar	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	Manganese Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedr	nont Floodplain Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)						Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red F	Parent Material (F21)
Stripped	Matrix (S6)						Very	Shallow Dark Surface (TF12)
Dark Surf	face (S7) (LRR R, ML	.RA 149B)					Other	(Explain in Remarks)
Indicators of h	avdrophytic vegetation	and wetland	l hydrology must be n	recent unles	e dieturhad	or problem	natic	
Indicators of h	nydrophytic vegetation	and wetland	l hydrology must be pr	resent, unles	s disturbed	or problen	natic.	
	nydrophytic vegetation ayer (if observed):	and wetland	l hydrology must be pi	resent, unles	s disturbed	or problen	natic.	
Restrictive La	ayer (if observed):			resent, unles	s disturbed	or problen		
estrictive La	ayer (if observed):			resent, unles	s disturbed	or problen	natic. Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
Restrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):			resent, unles	s disturbed	or problen		resent? Yes X No

Project/Site:	1902	20 - South Ripley		City/Count	tv:	Chautauqua (County	Sampling Date:	06/29/2020
Applicant/Owner:			ectGen LLC	,-	·		ate: New York		003-1U
Investigator(s):	Matt S	padoni & Sam Parker		Section, To	ownship, Ran			wn of Ripley	
Landform (hillslope, ter		•	Local re	•	ve, convex, n		Convex	Slope	: (%): 3-5
Subregion (LRR or MLI		LRR R MLRA 139	Lat:		8419586	Long:	-79.6639896		` '
Soil Map Unit Name:	′		Busti silt loam				NWI classification	-	
Are climatic / hydrologic	c conditions on	the site typical for this			. No	(If no,	explain in Remark		
Are Vegetation			•				cumstances" prese		X No
		, or Hydrology	•	•			ain any answers in		
SUMMARY OF FI							•		
Hydrophytic Vegetati		Yes	No X		Is the Samp	· · · · · · · · · · · · · · · · · · ·	,p = 1 tall 1		
Hydric Soil Present?		Yes	No X	-	within a We		Vec	No. Y	
Wetland Hydrology F		Yes	No X	_		uanu: ial Wetland Site		NoX	=
vvetiana riyarology r	resent:		110	_	ii yes, option	iai Welianu Sile			
Remarks: (Explain al	Iternative proce	dures here or in a sepa	arate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
		required; check all that	t apply)				Cocondany Indias	ators (minimum of t	two required)
Surface Water (required, check all tha	Water-Stained	d Leaves (B	30)			l Cracks (B6)	.wo required)
High Water Tab	` '	_	Aquatic Faun	,	59)			atterns (B10)	
		_	Marl Deposits						
Saturation (A3) Water Marks (B		C1)		Moss Trim L					
· `	,	_	Hydrogen Sul		-	to (C2)		Water Table (C2)	
Sediment Depo			Oxidized Rhiz		-	ts (C3)	Crayfish Bu		(00)
Drift Deposits (E	-		Presence of F			00)		/isible on Aerial Im	
Algal Mat or Cru			Recent Iron R		I Tilled Soils (C6)		Stressed Plants (D	1)
Iron Deposits (E	•		Thin Muck Su	, ,				Position (D2)	
Inundation Visib			Other (Explain	n in Remark	ks)		Shallow Aqu		
Sparsely Vegeta	ated Concave S	Surface (B8)						aphic Relief (D4)	
							FAC-Neutra	i lest (D5)	
Field Observations	:								
Surface Water Prese	ent? Y	es No X	Depth (inche	es):					
Water Table Present	? Y	es No X	Depth (inche	es):	_				
Saturation Present?	Y	es No X	Depth (inche	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fri	nge)			· -	_				·
Describe Recorded [Data (stream ga	auge, monitoring well, a	erial photos, p	revious insp	pections), if a	vailable:			
Remarks:									

0			Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: 0 Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0
over 0	Species? = Total Cove	Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: O.0 (A/B) Prevalence Index worksheet: Total % Cover of: OBL species O x 1 = 0 FACW species 0 x 2 = 0
over 0	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet:
over 0	Species? = Total Cove	Status	Total Number of Dominant 2 (B) Percent of Dominant Species 2 (B) Percent of Dominant Species 0.0 (A/B) Prevalence Index worksheet: 0.0 (A/B) Prevalence Index worksheet: 0 Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
0	= Total Cove		Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 TACW species 0 x 2 = 0
0	= Total Cove		Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 TACW species 0 x 2 = 0
0	= Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet:
0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet:
0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet:
0	= Total Cove	r	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
0	= Total Cove	r	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
	· 		Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
	· 		OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
			FACW species 0 x 2 = 0
			I FAC species 0 v3 - 0
			FACU species 75 x 4 = 300
			UPL species 0 x 5 = 0
			Column Totals: 75 (A) 300 (B)
	·		Prevalence Index = B/A = 4.0
	· 		1107010100 11100X 2577
			Hydrophytic Vegetation Indicators:
0	= Total Cove	r	1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
30	Yes	FACU	
5	No		3 - Prevalence Index ≤3.0¹
25	Yes	FACU	4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
20	165	FACU	
	· 		¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			25 process, amose distanced of processmans.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	-		breast height (DBH), regardless of height.
	· ——		
00	- Total Cava		Sapling/shrub - Woody plants less than 3 in. DBH and
50	- Total Cove		greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
	·		
0	= Total Cove		Hydrophytic
		•	Vegetation
			Present? Yes No X
	5 25 20	5 No 25 Yes 20 Yes 80 = Total Cove	5 No 25 Yes FACU 20 Yes FACU 80 = Total Cover

SOIL Sampling Point: 003-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 4/4 100 8-0 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ____ Depth (inches): **Hydric Soil Present?** No X Remarks: Gravel at 8, soils disturbed by farming activities by farming

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqua	a County	Sampling Date:	06/29/2020
Applicant/Owner:	' '	nectGen LLC		State: New York		003-1W
• • • • • • • • • • • • • • • • • • • •	Matt Spadoni & Sam Parker		Township, Range:		vn of Ripley	
Landform (hillslope, terrace, e	· · · · · · · · · · · · · · · · · · ·		cave, convex, none):	Concave		%): 2-5
Subregion (LRR or MLRA):			18426436 Long:		· · ·	NAD 83
Soil Map Unit Name:		Busti silt loam		NWI classificatio	-	
Are climatic / hydrologic condi			Y No (If no	o, explain in Remarks		ivi
, ,	l, or Hydrology	<u> </u>	`	Circumstances" prese	,	No
	, or Hydrology			plain any answers in		110
				•	•	
SUMMARY OF FINDING	55 - Attach Site map Si		oint locations, transe	ects, important i	eatures, etc.	
Hydrophytic Vegetation Pre-	sent? Yes X	No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No	
Wetland Hydrology Present	? Yes <u>X</u>	No	If yes, optional Wetland S	Site ID:	Wetland 3	
Damanda /Frankia altanati						
Remarks: (Explain alternativ	ve procedures here or in a sep	arate report.)				
HYDROLOGY						
Wotland Hydrology Indica	toro					
Wetland Hydrology Indica		at amply)		Casandani Indiaa	tore (minimum of true	a magninad)
-	n of one required; check all the		(DO)		create (DC)	requirea)
X Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	` '	
X High Water Table (A2)		Aquatic Fauna (B13)		X Drainage Pa		
X Saturation (A3)		Marl Deposits (B15)	(04)	Moss Trim L	` '	
Water Marks (B1)		Hydrogen Sulfide Odor			Water Table (C2)	
Sediment Deposits (B2	<u></u>	Oxidized Rhizospheres	• ,	Crayfish Bur		(00)
Drift Deposits (B3)		Presence of Reduced I	` '		isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	<u> </u>	Recent Iron Reduction	· ·		stressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7		X Geomorphic		
Inundation Visible on A	- · · · · <u>-</u>	Other (Explain in Rema	arks)	Shallow Aqu		
Sparsely Vegetated Co	ncave Surface (B8)			X Microtopogra		
				X FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes X No	Donth (inches):	2			
	Yes No X	Depth (inches): Depth (inches):				
Water Table Present?		_ ' '	14 Wetland Hy	rdralagy Dragont?	Voc. V	No
Saturation Present?	Yes X No	Depth (inches):	vvetiand ny	/drology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (st	ream gauge, monitoring well,	aerial photos, previous in	spections) if available:			
Bosonibe i Roserada Bata (6)	.oam gaago, mormoring won,	donai priotos, proviodo ii	iopodiono), ii availabio.			
Remarks:						
1						

				Sampling Point: 003-1W
	osolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
<u>Tree Stratum</u> (Plot size:) <u>%0</u>	Cover	Species?	Status	
1				Total Number of Dominant Species Across All Strata:4 (B)
3				Percent of Deminant Charles
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
7		-		Prevalence Index worksheet:
· · · · · · · · · · · · · · · · · · ·	0	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)		•		OBL species 60 x 1 = 60
1. Salix discolor / Pussy willow	5	Yes	FACW	FACW species 55 x 2 = 110
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5		: (Column Totals: 115 (A) 170 (B) Prevalence Index = B/A = 1.48
6				Prevalence index – B/A –
7				Hydrophytic Vegetation Indicators:
Llorb Chroture (District) 5	5	= Total Cove	er	X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	40	Vaa	EA C\A/	X 2 - Dominance Test is >50%
Phalaris arundinacea / Reed canarygrass, Reed canary gras Typha latifolia / Broadleaf cattail, Broad-leaved cattail	40 30	Yes Yes	OBL	X 3 - Prevalence Index ≤3.0¹
Carex lurida / Shallow sedge	20			4 - Morphological Adaptations (Provide supporting
4. Eupatorium perfoliatum / Common boneset	10	Yes No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5. Scirpus atrovirens / Green bulrush	5	No	OBL	
6. Juncus effusus / Common bog rush, Soft or lamp rush	5	No No	OBL	¹ Indicators of hydric soil and wetland hydrology must
	-	. —	OBL	be present, unless disturbed or problematic.
7			·	Definitions of Vegetation Strata
9				
10		· ·		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12		= Total Cove	 er	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.		•		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
4.				height.
_	0	= Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes No

SOIL Sampling Point: _____003-1W

(inches) 0-6	Matrix			Features			ce of indicators			
0-6	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
	10YR 3/1	95	10YR 5/8	5	С	М	Loamy clay			
6-18	10YR 2/1	75	10YR 5/1	25	D	М	Clayey			
			-							
			-							
			-							
				- 						
ype: C=Cond	entration, D=Depletion,	RM=Redu	uced Matrix, MS=Mask	ked Sand Gr	ains.		²Locat	tion: PL=P	ore Lining, M=M	atrix.
ydric Soil Inc	dicators:						Indicators	for Proble	ematic Hydric S	ioils³:
Histosol (/	A1)		Polyvalue Below	V Surface (St	3) (LRR R ,I	MLRA 149	3) 2 cm l	Muck (A10) (LRR K, L, ML	.RA 149B)
Histic Epi	pedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast	Prairie Re	dox (A16) (LRI	R K, L, R)
Black Hist	ic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm l	Mucky Pea	t or Peat (S3) (I	LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark S	Surface (S	7) (LRR K, L)	
Stratified I	Layers (A5)		X Depleted Matrix	(F3)			Polyva	alue Below	Surface (S8) (I	LRR K, L)
Depleted	Below Dark Surface (A1	l1)	Redox Dark Sur	face (F6)			Thin [Oark Surfac	ce (S9) (LRR K	, L)
Thick Dar	k Surface (A12)		X Depleted Dark S	Surface (F7)			Iron-M	1anganese	Masses (F12)	(LRR K, L, R)
Sandy Mu	icky Mineral (S1)		Redox Depressi	ons (F8)			Piedm	ont Flood	olain Soils (F19)	(MLRA 149B)
	eyed Matrix (S4)								46) (MLRA 14 4	IA, 145, 149B)
_ Sandy Re							_	arent Mate		
	Matrix (S6)								rk Surface (TF1	2)
Dark Surfa	ace (S7) (LRR R, MLR	:A 149B)					Other	(Explain in	Remarks)	
Indicators of h	ydrophytic vegetation a	nd wotland	t hydrology must be p	rocont unloc	e disturbed	or problem	atio			
	ydropriytic vegetation a	———	Trydrology must be pi	eseni, unies	s disturbed	or problem	alic.			
	yer (if observed):									
Type:								_		
Depth (incl	nes):						Hydric Soil Pr	esent?	Yes X	No
emarks [.]	ravel at 18									
demarks: G										

Project/Site:	19020 -	South Ripley	City/	County:	Chautaugua (County	Sampling Date:	06/29/2020		
Applicant/Owner:		Conn	ectGen LLC	,	State: New York Sampling Point: 004-1U					
Investigator(s):		MS, SPF	Secti	ion, Township, Ra	inge:	Tov	vn of Ripley			
Landform (hillslope, ter	race, etc):	Hill slope	Local relief (c	concave, convex,	none):	Convex	Slope	(%): 10		
Subregion (LRR or ML	RA): LRI	R R MLRA 139	Lat:	42.18506567	Long:	-79.665342	1 Datun	n: NAD 83		
Soil Map Unit Name:			nadakoin silt loam			NWI classification	on:			
Are climatic / hydrologi	c conditions on the	site typical for this t	ime of year? Yes	X No	(If no,	_ explain in Remark	s.)			
Are Vegetation	, Soil ,	or Hydrology	significantly distu	irbed?	Are "Normal Circ	cumstances" prese	ent? Yes >	K No		
Are Vegetation	, Soil ,	or Hydrology	naturally problen	natic?	(If needed, expla	ain any answers in	Remarks.)			
SUMMARY OF FI	NDINGS - Atta	ch site map sh	 owing sampling	g point locati	ons, transec	ts, important	features, etc.			
Hydrophytic Vegetati	ion Present?	Yes	No X	Is the Sam	pled Area	-				
Hydric Soil Present?		Yes X	No	within a W	-	Yes	No X			
Wetland Hydrology F		Yes	No X		onal Wetland Site			_		
			· · ·	, , . ,		•				
Remarks: (Explain a	Iternative procedure	es here or in a sepa	rate report.)							
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (n		uired: check all that	apply)			Secondary Indica	ators (minimum of t	wo required)		
Surface Water (jan ou, on our un unu	Water-Stained Leav	/es (B9)			Cracks (B6)			
High Water Tab	` '		Aquatic Fauna (B13	` '			atterns (B10)			
Saturation (A3)	` ,		Marl Deposits (B15	•		Moss Trim L				
Water Marks (B1) Hydrogen Sulfide Odor (C1)						Dry-Season Water Table (C2)				
Sediment Depo	sits (B2)		Oxidized Rhizosphe		ots (C3)	Crayfish Bu				
Drift Deposits (F			Presence of Reduc	-	,		isible on Aerial Ima	agery (C9)		
Algal Mat or Cru	•		Recent Iron Reduct		(C6)		Stressed Plants (D1			
Iron Deposits (E	35)		Thin Muck Surface	(C7)		Geomorphic	Position (D2)			
Inundation Visib	ole on Aerial Image	ry (B7)	Other (Explain in Re	emarks)		Shallow Aqu	uitard (D3)			
Sparsely Vegeta	ated Concave Surfa	ace (B8)				Microtopogr	aphic Relief (D4)			
						FAC-Neutra	l Test (D5)			
Field Observations										
Field Observations		No. V	Donth (inches)							
Surface Water Prese Water Table Present	•	NoX NoX	Depth (inches):							
Saturation Present?			/ _		Watland Hyd	rology Procent?	Voc	No X		
(includes capillary fri	•	NO	Depth (inches):		welland nyu	rology Present?	Yes	No X		
(Includes capillary III	rige)									
Describe Recorded I	Data (stream gauge	e, monitoring well, a	erial photos, previou	is inspections), if	available:					
-										
Remarks:										

Tree Stratum (Plot size: 30) %Cover Species? Status 1. Tsuga canadensis / Eastern hemlock 25 Yes FACU Total Number of Dominant	
Absolute Dominant Indicator Tree Stratum (Plot size: 30) %Cover Species? Status 1. Tsuga canadensis / Eastern hemlock 25 Yes FACU Number of Dominant Species That Are OBL, FACW, or FAC:	
Absolute Dominant Indicator Tree Stratum (Plot size: 30)	
Tree Stratum (Plot size: 30) %Cover Species? Status 1. Tsuga canadensis / Eastern hemlock 25 Yes FACU Total Number of Dominant	0 (A)
1. Tsuga canadensis / Eastern hemlock 25 Yes FACU Total Number of Dominant	()
_ -	
2. Fraxinus americana / White ash 20 Yes FACU Species Across All Strata:	6 (B)
3. Acer saccharum / Sugar maple 15 Yes FACU	. ,
4. Percent of Dominant Species	
	0.0 (A/B)
6.	
7. Prevalence Index worksheet:	
60 = Total Cover Total % Cover of: Multi	oly by:
Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 =	0
1. Fraxinus americana / White ash 5 Yes FACU FACW species 0 x 2 =	0
2. FAC species 0 x 3 =	0
3. FACU species 100 x 4 =	400
4. UPL species 0 x 5 =	0
5. Column Totals: 100 (A)	400 (B)
Prevalence Index = B/A =	.0
7	
5 = Total Cover	
Herb Stratum (Plot size: 5)1 - Rapid Test for Hydrophytic Vegetat	on
1. Rubus allegheniensis / Allegheny blackberry 15 Yes FACU 2 - Dominance Test is >50%	
2. Trifolium dubium / Shamrock, Little hop clover 10 Yes FACU 3 - Prevalence Index ≤3.0¹	
3. Acer saccharum / Sugar maple 5 No FACU 4 - Morphological Adaptations (Provide	supporting
Problematic Hydrophytic Vegetation 1 (Explain)
4. Taraxacum officinale ssp. officinale / Common dandelion 5 No FACU	
¹Indicators of hydric soil and wetland hydro	ogy must
6 be present, unless disturbed or problematic	
7	
8 Definitions of Vegetation Strata	
9 Definitions of vegetation strata	
9	n diameter at
9	n diameter at
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3	
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 greater than or equal to 3.28 ft (1 m) tall.	
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants,	n. DBH and regardless of
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 greater than or equal to 3.28 ft (1 m) tall.	n. DBH and regardless of
9	n. DBH and regardless of
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) 1. Herb - All herbaceous (non-woody) plants, size, and woody plants less than 3.28 ft tall	n. DBH and regardless of
9. Tree - Woody plants 3 in. (7.6 cm) or more breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) 1. Herb - All herbaceous (non-woody) plants, size, and woody plants less than 3.28 ft tall woody vines - All woody vines greater than	n. DBH and regardless of
9.	n. DBH and regardless of
9.	n. DBH and regardless of
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in
9.	n. DBH and regardless of n 3.28 ft in

SOIL Sampling Point: 004-1U

Depth	ription: (Describe to the Matrix			x Features		450011	J. maroutor	,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10 yr 2/1	100					Loam			
6-18	10 yr 6/2	90	10 yr 5/8	10	С	М	Loam			
					. <u> </u>					
					. <u> </u>					
	· ·			_						
	· -									
	· -									
	· ·			_						
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=N	Matrix.
Hydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric	Soils ³ :
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149E) (LRR K, L, M	
	oipedon (A2)		Thin Dark Surfa						edox (A16) (LR	•
	stic (A3)		Loamy Mucky N			,			at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed		, , , –,				67) (LRR K, L)	. , , , 1
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	(LRR K, L)
	d Below Dark Surface (A11)	Redox Dark Su						ce (S9) (LRR I	
	ark Surface (A12)	,	Depleted Dark							(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					•	, ,) (MLRA 149B)
	Gleyed Matrix (S4)			()						14A, 145, 149B)
	Redox (S5)								erial (F21)	, , , , , , , , , , , , , , , , ,
	Matrix (S6)								ark Surface (TF	12)
	rface (S7) (LRR R, ML	RA 149B)							n Remarks)	,
		,						(=xp.a		
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
Restrictive L	ayer (if observed):									
Type:	, (00000).									
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Dopui (iii							,		100 <u>X</u>	
Remarks:										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqi	ua County	Sampling Date: 06/29/202	20
Applicant/Owner:	' '	onnectGen LLC		State: New York		
Investigator(s):	Matt Spadoni & Sam Parke		Township, Range:		n of Ripley	
Landform (hillslope, terrace, e	•		ave, convex, none):	Concave	' '	5
Subregion (LRR or MLRA):			.1849604 Long:			
Soil Map Unit Name:		Chadakoin silt loam		NWI classification		
Are climatic / hydrologic condi			X No (If	no, explain in Remarks		
, ,	l , or Hydrology	· —		Circumstances" prese		
Are Vegetation , Soi		naturally problemation		xplain any answers in		
SUMMARY OF FINDING				•	·	
	-			ects, important	eatures, etc.	
Hydrophytic Vegetation Pre			Is the Sampled Area			
Hydric Soil Present?	Yes X		within a Wetland?	Yes X	_	
Wetland Hydrology Present	? Yes <u>X</u>	No	If yes, optional Wetland	Site ID:	Wetland 4	
Remarks: (Explain alternativ	ve procedures here or in a se	eparate report)				
tomanie (Explain alternati		sparato reporti				
HYDROLOGY						
Wetland Hydrology Indica	tors:					
Primary Indicators (minimur	n of one required; check all t	hat apply)		Secondary Indica	tors (minimum of two required))
Surface Water (A1)	<u></u>	X Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)		X Drainage Pa	tterns (B10)	
X Saturation (A3)	<u> </u>	Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2	2)	X Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	<u>_</u>	Presence of Reduced I	ron (C4)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7)	Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	itard (D3)	
Sparsely Vegetated Co	oncave Surface (B8)			Microtopogra	aphic Relief (D4)	
				FAC-Neutral	Test (D5)	
Field Observations						
Field Observations:	V N- V	Double (in the ca)				
Surface Water Present?	Yes NoX	' '	40			
Water Table Present?	Yes X No	Depth (inches):	16		V V N	
Saturation Present?	Yes X No	Depth (inches):	8 Wetland H	lydrology Present?	Yes X No	_
(includes capillary fringe)						
Describe Recorded Data (st	tream gauge, monitoring wel	I. aerial photos, previous in	spections), if available:			
((a com geoge, memoring ner	., р, р	,, , , , , , , , , , , , , , , , , , , ,			
Remarks:						
1						

Dominance Test worksheet: Number of Dominant Species
That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Total Number of Dominant Species Across All Strata: 3 (B)
Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B) Prevalence Index worksheet:
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
That Are OBL, FACW, or FAC: 66.7 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
That Are OBL, FACW, or FAC: 66.7 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
Prevalence Index worksheet: Total % Cover of: Multiply by:
Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
FACW species 75 x 2 = 150 FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
FAC species 15 x 3 = 45 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
UPL species 0 x 5 = 0 Column Totals: 125 (A) 335 (B)
Column Totals: 125 (A) 335 (B)
` ` ` ` ` ` ` ` ` ` ` ` `
Frevalence index - b/A - 2.00
Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
X 3 - Prevalence Index ≤3.0¹
4 - Morphological Adaptations (Provide supporting
FA(: —
-ACU Problematic Hydrophytic Vegetation¹ (Explain)
Aladia-tara of budgia and another devided and another
¹Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Definitions of Vegetation Strata
Definitions of Vegetation Strata
To a Manda de la desta Circ. (7.0 cm) au manda dispersata de
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub - Woody plants less than 3 in. DBH and
greater than or equal to 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless of
Woody vines - All woody vines greater than 3.28 ft in
height.
Hydrophytic
Vegetation
Present? Yes X No

SOIL Sampling Point: _____004-1W

Depth	Matrix		eeded to document the Redox	x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 2/1	90	10YR 5/8	10	С	PL	Clayey loam			
6-18	10YR 5/2	80	10YR 6/8	20	С	PL,M	Loam			
Type: C=Con	centration, D=Depletic	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, M=Ma	atrix.
lydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric S	oile3.
Histosol (Dobarduo Polov	v Curfoso (C)) / DD D	MI DA 440			-	
	` ,		Polyvalue Belov) (LRR K, L, ML	-
	ipedon (A2)		Thin Dark Surfa						dox (A16) (LRR	
Black His			Loamy Mucky N		LKK K, L)		·		t or Peat (S3) (L	KK K, L, K)
	n Sulfide (A4)		Loamy Gleyed I X Depleted Matrix					-	7) (LRR K, L)	DD K I \
	Layers (A5)	Λ11\	X Depleted Matrix X Redox Dark Sui						Surface (S8) (L	· ·
	Below Dark Surface (AII)	Depleted Dark Sui						ce (S9) (LRR K, Masses (F12)	
	rk Surface (A12) ucky Mineral (S1)							J	, ,	
	leyed Matrix (S4)		Redox Depress	ions (Fo)			·		olain Soils (F19) A6) (MLRA 144	
	edox (S5)							Parent Mate		A, 145, 149D)
	Matrix (S6)								rk Surface (TF12)\
	face (S7) (LRR R, MI	DA 1/0B)						· (Explain in		-)
Dark Gui	lace (O7) (LIXIX IX, IIII	-IVA 143D)					01101	(Explain iii	rtemarks)	
					م مانمان سام م	l or problem				
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di pidbi e li	iatic.			
		and wetlan	d hydrology must be p	resent, unles	s disturbed	r or problem	natic.			
Restrictive La	hydrophytic vegetation ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	r or problem	natic.			
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	r or problem			Vaa. V	No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	r or problem	Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	r or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	roi problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	i di probleti		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautauqua	a County	Sampling Date:	06/29/2020
Applicant/Owner:	· ,	nectGen LLC		State: New York	· · ·	005-1U
Investigator(s):	Matt Spadoni & Sam Parker		Township, Range:		n of Ripley	
Landform (hillslope, terrace, e			ave, convex, none):	Convex		%): 5-15
Subregion (LRR or MLRA):			18486162 Long:			
Soil Map Unit Name:		hadakoin silt loam		NWI classificatio		14712 00
·	itions on the site typical for this		X No (If no	o, explain in Remarks		
, ,	il, or Hydrology			ircumstances" prese		No
	il, or Hydrology			plain any answers in		110
· · · · · · · · · · · · · · · · · · ·				•	•	
SUMINIARY OF FINDIN	GS - Attach site map sl	lowing sampling p	oint locations, transe	ects, important i	eatures, etc.	
Hydrophytic Vegetation Pre	esent? Yes	_	Is the Sampled Area			
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX	
Wetland Hydrology Presen	t? Yes	_ NoX	If yes, optional Wetland S	ite ID:		
Demarks: (Evolain alternat	ve procedures here or in a sep	arate report \				
Remarks. (Explain alternat	ve procedures here or in a sep	arate report.)				
HYDROLOGY						
Wetland Hydrology Indic	ators:					
	m of one required; check all tha	it apply)		Secondary Indica	tors (minimum of tw	o required)
Surface Water (A1)	o.	Water-Stained Leaves	B9)	Surface Soil		
High Water Table (A2)		Aquatic Fauna (B13)	,20)	Drainage Pa		
Saturation (A3)		Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)		Water Table (C2)	
Sediment Deposits (B	2)	Oxidized Rhizospheres		Crayfish Bur		
Drift Deposits (B3)	<u></u>	Presence of Reduced I			isible on Aerial Imag	nery (CQ)
Algal Mat or Crust (B4		Recent Iron Reduction	` '		tressed Plants (D1)	
_ ·			` ,		, ,	
Iron Deposits (B5)	A oriol Imagany (P7)	Thin Muck Surface (C7			Position (D2)	
Inundation Visible on .		Other (Explain in Rema	rks)	Shallow Aqu		
Sparsely Vegetated C	oncave Surface (B8)				aphic Relief (D4)	
				FAC-Neutral	rest (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X					
Saturation Present?	Yes No X	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)	165 146 <u>X</u>	Deptir (iriories).		arology i resent.		<u> </u>
(melades capillary lillige)						
Describe Recorded Data (s	stream gauge, monitoring well,	aerial photos, previous in	spections), if available:			
Remarks:						
i e						

/EGETATION - Use scientific names of plants.				Sampling Point:005-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That file OBE, 17,000, 0117,0.
1. Acer saccharum / Sugar maple	50	Yes	FACU	Total Number of Dominant
Fagus grandifolia / American beech	40	Yes	FACU	Species Across All Strata: 6 (B)
Traga grandiola / American beech Traga canadensis / Eastern hemlock				Species Across Air Strata. (b)
		No	FACU	Description of Description of Oceanies
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.7 (A/B)
6.		_		Prevalence Index worksheet:
7				
	100	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	10	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 25 x 3 = 75
3				FACU species140 x 4 =560
4.				UPL species 0 x 5 = 0
5.			· <u></u>	Column Totals:165 (A)635 (B)
6.			·	Prevalence Index = B/A = 3.85
7				
T	10	= Total Cov		Hydrophytic Vegetation Indicators:
Lloub Chrotum (Diet sine) E	10	_ = 10tal C0V	. [1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	00	\/	FACIL	2 - Dominance Test is >50%
Polystichum acrostichoides / Christmas fern		Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Viola rotundifolia / Round-leaf yellow violet	15	Yes	FAC	4 - Morphological Adaptations (Provide supporting
Dryopteris intermedia / Evergreen wood fern	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
4. Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	<u> </u>
5		_		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
9.			- <u> </u>	Dominion of Vogotation of data
10.			· <u></u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			·	breast height (DBH), regardless of height.
12.			· ——	
	55	= Total Cov		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)		_ 10101 001	0 1	
				Herb - All herbaceous (non-woody) plants, regardless of
1.		_		size, and woody plants less than 3.28 ft tall.
2.			- ———	Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ite report.)			

SOIL Sampling Point: 005-1U

Depth	ription: (Describe to the Matrix			x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type¹ L	.OC ²	Texture		Remark	KS	
0-2	10YR 3/1	100					Loam				
2-8	10YR 4/6	100					Loam				
	-										
	-										
				_							
	<u> </u>										
	·										
	noontration D=Danlatia	n DM=Dodu	and Matrix MS=Man	kad Sand Cr			2l 000ti	ion: DI =D	oro Lining M	1-Motrix	
ype: C=Co	ncentration, D=Depletion	n, Rivi=Redu	ced Matrix, MS=Mas	ked Sand Gr	ams.		Local	ion: PL=P	ore Lining, M	i=iviatrix.	
ydric Soil I	ndicators:						Indicators	for Proble	ematic Hydr	ic Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (St	3) (LRR R,MLF	RA 149E	3) 2 cm N	/luck (A10) (LRR K, L	, MLRA 1491	B)
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA 149	9B)	Coast	Prairie Re	edox (A16) (LRR K, L, R	?)
Black H	istic (A3)		Loamy Mucky N	Mineral (F1)	(LRR K, L)		5 cm N	lucky Pea	at or Peat (S	3) (LRR K, L	L, R)
— Hydroge	en Sulfide (A4)		Loamy Gleyed				Dark S	Surface (S	7) (LRR K,	L)	
Stratifie	d Layers (A5)		Depleted Matrix							3) (LRR K, L	∟)
 Deplete	d Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)					ce (S9) (LR		
	ark Surface (A12)	,	Depleted Dark							2) (LRR K ,	, L, R)
	Mucky Mineral (S1)		Redox Depress					-	-	19) (MLRA	
_	Gleyed Matrix (S4)			(- /						144A, 145,	
_	Redox (S5)								erial (F21)	, ,	,
	Matrix (S6)								ark Surface (TF12\	
	rface (S7) (LRR R, ML	DA 1/0R)							n Remarks)	11 12)	
Daik 30	inace (37) (LIKIK IK, IVIL	.IXA 143D)						(Lxpiaiii ii	i itelliaiks)		
Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	s disturbed or r	roblem	atic.				
				·	•	Т					
	_ayer (if observed):										
Type:	1 \							10			v
Depth (in	iches):		<u></u>				Hydric Soil Pro	esent?	Yes	No _	Х
temarks:											
	Rock refusal at 8										

Project/Site:	19020 - South Ripley		City/County:	Chautau	qua County	Sampling Date:	06/29/2020
Applicant/Owner:		ConnectGen LLC	, , ,		State: New York		005-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Towr	nship, Range:		wn of Ripley	
Landform (hillslope, terrace,				convex, none):			(%): 3-5
Subregion (LRR or MLRA):							`
Soil Map Unit Name:		Chadakoin silt k			NWI classificati	_	PFO
Are climatic / hydrologic con-	ditions on the site typical for			No (If no, explain in Remarl	-	
Are Vegetation, S		•		·	al Circumstances" pres	•	(No
	oil, or Hydrology				explain any answers in		
SUMMARY OF FINDIN				•	•	•	
Hydrophytic Vegetation Pr			· · ·	the Sampled Area			
Hydric Soil Present?				thin a Wetland?	Voo V	No	
					Yes X	No Wetland 4	_
Wetland Hydrology Preser	nt? Yes	X No	_ " '	ves, optional Wetlan	u Sile ID.	vveiland 4	
Remarks: (Explain alterna	tive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology India	ators:						
Primary Indicators (minim	um of one required; check a	II that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	·	X Water-Staine	d Leaves (B9)		Surface So	il Cracks (B6)	
High Water Table (A2	<u>'</u>	Aquatic Faur	ıa (B13)		X Drainage P	atterns (B10)	
X Saturation (A3)		Marl Deposits	s (B15)		Moss Trim	Lines (B16)	
Water Marks (B1)		Hydrogen Su	Ifide Odor (C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhi	zospheres on L	iving Roots (C3)	Crayfish Bu	irrows (C8)	
Drift Deposits (B3)		Presence of	Reduced Iron (C4)	Saturation '	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	4)	Recent Iron F	Reduction in Til	led Soils (C6)		Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck Si	urface (C7)		Geomorphi	c Position (D2)	
Inundation Visible on	Aerial Imagery (B7)	Other (Explai	in in Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated (Concave Surface (B8)				Microtopog	raphic Relief (D4)	
					FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	ec).				
Water Table Present?	Yes X No	Depth (inch	-				
Saturation Present?	Yes X No	Depth (inch	· —	Wotland	Hydrology Present?	Yes X	No
(includes capillary fringe)	165 <u>X</u> 110 _	Deptil (illoi)	es). <u> </u>	Wetiand	riyurology Fresent:	163 <u>X</u>	NO
(includes capillary inlige)							
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, p	orevious inspec	tions), if available:			
Remarks:							
Tromanto.							

6.					Sampling Point:005-1W
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 2 (A)					Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata: 3 (B)					Number of Dominant Species
Fagus grandifolia / American beech 25 Yes FACU Species Across All Strate: 3 (B)		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Species Across All Strata: 3 (B) Species Across All Strata: 4 (Across All Strata	Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (Ari Are OBL, FACW, or FACW	1. Fagus grandifolia / American beech	25	Yes	FACU	Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (Art of Decision Continue	2.				Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/I of FAC: 66.7					
That Are OBL, FACW, or FAC: 66.7 (All feet All					Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by:	_				· ·
Prevalence Index worksheet: Total % Cover of: Multiply by: Delta Species 0 x1 = 0	6				
Total Score of the Stratum (Plot size: 15) Total Cover FACW species 75			-		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)			= Total Cov		Total % Cover of: Multiply by:
FACW species 75 x 2 = 150	Sanling/Shruh Stratum (Plot size: 15)		_ = 10tai 00v	Ci	
FAC species 15	4				
FACU species 35 x 4 = 140					<u> </u>
Very species 0 x5 = 0 Column Totals: 125 (A) 335 (A) 335 (A)	2.		-	 	· — — — — — — — — — — — — — — — — — — —
Column Totals: 125 (A) 335 (Prevalence Index = B/A = 2.68 Column Totals: 125 (A) 335 (Column Total Size (Index Solitals (In	3.		- -		
Prevalence Index = B/A = 2.68		-			
Herb Stratum (Plot size: 5 0 = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting and the proposition of the properties of			<u> </u>		` ` ` `
Herb Stratum (Plot size: 5 5 7 1 Impatiens capensis / Spotted jewelweed 60 Yes FACW 2 2 2 2 2 2 2 3 4 3 5 7 7 8 4 4 4 5 7 8 7 8 8 8 8 8 8 8	6				Prevalence index – B/A – 2.08
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic 1	7				Hydrophytic Vegetation Indicators:
Perfo Stratum (Plot size: 5 5 1. Impatiens capensis / Spotted jewelweed 60 Yes FACW 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - 4 - Morphological Adaptations (Provide supporting Problematic H		0	_ = Total Cov	er	
1. Impatiens capensis / Spotted jewelweed 2. Onoclea sensibilis / Sensitive fern 3. Arisaema triphyllum / Jack-in-the-pulpit 4. Geranium robertianum / Robert's geranium 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Herb Stratum (Plot size: 5)				
2. Onoclea sensibilis? Sensitive ferm 3. Arisaema triphyllum / Jack-in-the-pulpit 4. Geranium robertianum / Robert's geranium 5. 6. 6. 7. 8. 9. 10. 10. 11. 12. 12. 13. 14 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. 15. 16. 17. 18. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Impatiens capensis / Spotted jewelweed	60	Yes	FACW	
Ansaema triphyllum / Jack-in-the-pulpit 4. Geranium robertianum / Robert's geranium 5.	2. Onoclea sensibilis / Sensitive fern	15	No	FACW	
4. Geranium robertianum / Roberts geranium 5.	3. Arisaema triphyllum / Jack-in-the-pulpit	15	Yes	FAC	1 -
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	4. Geranium robertianum / Robert's geranium	10	No	FACU	Problematic Hydrophytic Vegetation* (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Hydrophytic	5.				
7. 8. 9. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 10 = Total Cover Hydrophytic	6.				
8. 9. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic					be present, unless disturbed or problematic.
9.	0				Definitions of Vanatation Strate
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic	0				Definitions of vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The proof of the proof of the plant of the pla				-	
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:	11				
Woody Vine Stratum (Plot size:30) 1	10	-	- ·		
Woody Vine Stratum (Plot size: 30) 1.	12.		- Total Cov		
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic	Wasaka Vina Otratura (Distraina	100	_ = 10tal Cov	er	greater than or equal to 3.28 π (1 m) tall.
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. 0 = Total Cover Hydrophytic					
3. height. 1. O = Total Cover Hydrophytic					
4	2	-			
0 = Total Cover Hydrophytic	3				height.
	4				
Vegetation		0	_ = Total Cov	er	
Present? Yes X No					Present? Yes X No

SOIL Sampling Point: 005-1W

Depth	ription: (Describe to the Matrix			c Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Re	marks
0-6	10YR 2/1	90	10YR 5/8	10	С	PL	Clayey loam		
6-18	10YR 5/2	80	10YR 6/8	20	С	M,PL	Loam		
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		² Locatio	on: PL=Pore Linin	ıg, M=Matrix.
lydric Soil I	ndicators:						Indicators f	or Problematic H	lydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (St	8) (I RR R	MI RA 149			K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Surfa						6) (LRR K, L, R)
	istic (A3)		Loamy Mucky M						t (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N		(=1XIX IX, L)			ucky Peat of Pea urface (S7) (LRF	
	d Layers (A5)		X Depleted Matrix						e (S8) (LRR K, L)
	d Below Dark Surface (Δ11)	X Redox Dark Sur					ark Surface (S9)	
	ark Surface (A12)	A11)	Depleted Dark S						(F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi					•	ls (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depressi	0113 (1 0)					LRA 144A, 145, 149B)
	Redox (S5)							rent Material (F2	· · · · · · · · · · · · · · · · · · ·
	Matrix (S6)							nallow Dark Surfa	
	rface (S7) (LRR R, ML	RA 149B)						Explain in Remar	
	(0.) (2	,							
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	l or problem	natic.		
Postrictivo I	_ayer (if observed):								
Type:	Layer (ii observeu).								
Depth (in	iches).						Hydric Soil Pre	sent? Yes	X No
Deptii (iii			 ,						<u> </u>
Remarks:									

Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautauqu	ia County	Sampling Date:	06/30/2020
Applicant/Owner:	· · ·	ConnectGen LLC	·	State: New York		006-1U
Investigator(s):	Matt Spadoni & Sam Pai		Township, Range:		n of Ripley	
• • • — — —	etc): Hillslope		cave, convex, none):	Convex		(%): 15-20
	LRR R MLRA 139		.17975082 Long:			· /
Soil Map Unit Name:		aquents-Udifluvents complex		NWI classificatio		14712 00
· —	nditions on the site typical for			no, explain in Remarks		
, ,	Soil, or Hydrology	<u> </u>		Circumstances" prese	•	No
	Soil, or Hydrology			cplain any answers in		140
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			•	•	
SUMMART OF FINDI	NGS - Attach site map	snowing sampling p	oint locations, trans	ects, important i	eatures, etc.	
Hydrophytic Vegetation P	resent? Yes		Is the Sampled Area			
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX	
Wetland Hydrology Prese	nt? Yes	NoX	If yes, optional Wetland S	Site ID:		
Damada (Fundain altama	45					
Remarks: (Explain alterna	ative procedures here or in a	separate report.)				
HYDROLOGY						
Wetland Hydrology Indi	cators:					
	ium of one required; check a	I that apply)		Secondary Indica	tors (minimum of tw	vo required)
Surface Water (A1)	ani oi one requirea, oneok a	Water-Stained Leaves	(RQ)	Surface Soil	•	vo requirea)
High Water Table (A.	٥١	Aquatic Fauna (B13)	(09)	Drainage Pa		
1 - ·	2)			Moss Trim L		
Saturation (A3)		Marl Deposits (B15)	· (C1)		, ,	
Water Marks (B1)	DO)	Hydrogen Sulfide Odor			Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Bur		(00)
Drift Deposits (B3)		Presence of Reduced I	` '		isible on Aerial Ima	
Algal Mat or Crust (E	34)	Recent Iron Reduction	` '		tressed Plants (D1))
Iron Deposits (B5)		Thin Muck Surface (C7			Position (D2)	
	n Aerial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu		
Sparsely Vegetated	Concave Surface (B8)				aphic Relief (D4)	
				FAC-Neutral	Test (D5)	
Field Observations:						
	Voc. No.	V Donth (inches):				
Surface Water Present?		X Depth (inches): X Depth (inches):				
Water Table Present?		· · ·			V	NI- V
Saturation Present?	Yes No	X Depth (inches):	wetland H	ydrology Present?	Yes	No X
(includes capillary fringe)						
Describe Recorded Data	(stream gauge, monitoring w	ell aerial nhotos previous ir	espections) if available:			
Describe recorded Data	(Stream gaage, morntoning w	en, dendi priotos, previodo n	iopeoliono), ii avaliable.			
Remarks:						

VEGETATION - Use scientific names of plants.				Sampling Point: 006-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	, `,
1. Fagus grandifolia / American beech	25	Yes	FACU	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	25	Yes	FACU	Species Across All Strata: 3 (B)
3. Betula alleghaniensis / Yellow birch	25	Yes	FAC	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 33.3 (A/B)
6.				
7.				Prevalence Index worksheet:
	75	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 25 x 3 = 75
3.				FACU species 50 x 4 = 200
4.				UPL species 0 x 5 = 0
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 3.67
7.		_		
		= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5)		_		1 - Rapid Test for Hydrophytic Vegetation
1.				2 - Dominance Test is >50%
2.				3 - Prevalence Index ≤3.0¹
•				4 - Morphological Adaptations (Provide supporting
1				Problematic Hydrophytic Vegetation¹ (Explain)
··				
^			-	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7. 8.				
6. 9.				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		T-4-1 O		Sapling/shrub - Woody plants less than 3 in. DBH and
Manda Manda Otantana (Dintaina	0	_ = Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.		_		size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er/	Hydrophytic
				Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separa	ite report)			
Tremarks. (Explain alternative procedures here of in a separa	ite report.)			

SOIL Sampling Point: 006-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/2 100 8-0 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ____ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 8

Project/Site:	19020) - South Ripley		City/County:	Chau	itaugua County	Sampling Date:	07/13/2020
Applicant/Owner:			nectGen LLC	,		State: New York		006-2U
Investigator(s):		Matt Spadoni		Section, Towr	nship. Range:		own of Ripley	
Landform (hillslope, teri		<u> </u>			convex, none):		Slope	e (%): 2-5
Subregion (LRR or MLF		RR R MLRA 139	Lat:	*		ong: -79.67269		` '
Soil Map Unit Name:	,		uents-Udifluvents			NWI classificat		
Are climatic / hydrologic	c conditions on the			· ·	No	(If no, explain in Remar	ks.)	
Are Vegetation			•			rmal Circumstances" pres	•	X No
		, or Hydrology		oblematic?	(If need	ed, explain any answers i		
	_				•	ransects, important	•	
Hydrophytic Vegetati		Yes	No X		the Sampled Ar			
Hydric Soil Present?		Yes	NoX	-	thin a Wetland?		NoX	
Wetland Hydrology P		Yes	No X	_	es, optional We			_
Trouding Tryanology T				- " '	oo, optional tro			
Remarks: (Explain al	ternative proced	ures here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (m		oguired: check all th	at apply)			Socondary India	oatore (minimum of	two required)
Surface Water (equired, check all til	Water-Stained	Leaves (RO)			cators (minimum of object of the control of the con	two required)
	•	_	_	,				
	High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15) Drainage Patterns (B10) Moss Trim Lines (B16)							
	Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)							
<u> </u>	Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)							
	Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)							
	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)							
Iron Deposits (B		_	Thin Muck Sur		(00)		ic Position (D2)	.,
I — ' '	ole on Aerial Imag	gerv (B7)	Other (Explain	` '			uitard (D3)	
	ated Concave Su		(,			raphic Relief (D4)	
_ , , ,		,				 · · ·	al Test (D5)	
					1	<u>—</u>		
Field Observations:								
Surface Water Prese		s No X		-				
Water Table Present		s No X	_ ' '	· —			.,	
Saturation Present?	Ye	es NoX	Depth (inches	s):	Wetla	and Hydrology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	Data (stream gau	ige, monitoring well.	aerial photos, pro	evious inspec	tions), if availabl	e:		
	· · · · · · · · · · · · · · · · · · ·		р		,,			
Remarks:								

Absolute Tree Stratum (Plot size: 30)	Species? Yes No Total Cove Yes Total Cove Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species 4 (B) Prevalence Index worksheet: 0.0 (A/B) Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 125 x4 = 500 UPL species 0 x5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0 4.0
Tree Stratum (Plot size: 30 %Cover 1. Tsuga canadensis / Eastern hemlock 70 2. Prunus serotina / Black cherry 15 3.	Species? Yes No Total Cove Yes Total Cove Yes	FACU FACU FACU	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: 0 Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0 4.0
Tree Stratum (Plot size: 30) %Cover 1. Tsuga canadensis / Eastern hemlock 70 2. Prunus serotina / Black cherry 15 3. ————————————————————————————————————	Species? Yes No Total Cove Yes Total Cove Yes	FACU FACU FACU	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 125 x4 = 500 UPL species 0 x5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A =
1. Tsuga canadensis / Eastern hemlock 70 2. Prunus serotina / Black cherry 15 3.	Yes No Total Cove Yes Total Cove	FACU FACU	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 125 x4 = 500 UPL species 0 x5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
2. Prunus serotina / Black cherry 15 3	= Total Cove Yes = Total Cove Yes	FACU	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
3.	= Total Cove Yes = Total Cove Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
4.	= Total Cove Yes = Total Cove Yes	FACU	That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
5	= Total Cove Yes = Total Cove Yes	FACU	That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
5.	= Total Cove Yes = Total Cove Yes	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
6.	= Total Cove Yes = Total Cove Yes	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0 4.0
7	= Total Cove Yes = Total Cove Yes	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0 4.0
Sapling/Shrub Stratum	Yes = Total Cove	FACU	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
1. Fagus grandifolia / American beech 10 2.	= Total Cove		FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
2	= Total Cove		FAC species 0 x 3 = 0 FACU species 125 x 4 = 500 UPL species 0 x 5 = 0 Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
3.	= Total Cove		FACU species
3.	= Total Cove		UPL species 0 $x = 5 = 0$ Column Totals: 125 $(A) = 500$ (B) Prevalence Index = B/A = 4.0
4	= Total Cove		Column Totals: 125 (A) 500 (B) Prevalence Index = B/A = 4.0
5	= Total Cove		Prevalence Index = B/A = 4.0
6	= Total Cove		
7	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5) 1. Maianthemum racemosum / Feathery false lily of the valley 20 2. Rubus idaeus / Common red raspberry 10 3. 4. 5	Yes	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5) 1. Maianthemum racemosum / Feathery false lily of the valley 20 2. Rubus idaeus / Common red raspberry 10 3. 4. 5. 6	Yes	•	
1. Maianthemum racemosum / Feathery false lily of the valley 2. Rubus idaeus / Common red raspberry 3. 4. 5.	. — — — — — — — — — — — — — — — — — — —		1 - Rapid Test for Hydrophytic Vegetation
2. Rubus idaeus / Common red raspberry 10 3. 4. 5.	. — — — — — — — — — — — — — — — — — — —	FACU	2 - Dominance Test is >50%
3. 4. 5	Yes	FACU	3 - Prevalence Index ≤3.0¹
4	103	1700	4 - Morphological Adaptations (Provide supporting
5.			Problematic Hydrophytic Vegetation¹ (Explain)
6			
	. ———		¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
7			
8			Definitions of Vegetation Strata
9			
10			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11			breast height (DBH), regardless of height.
12			Sapling/shrub - Woody plants less than 3 in. DBH and
	= Total Cove	r	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)			Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2	<u> </u>		Woody vines - All woody vines greater than 3.28 ft in
3	<u> </u>		height.
4			
0	= Total Cove	r	Hydrophytic
			Vegetation
			Present? Yes NoX

SOIL Sampling Point: 006-2U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 5YR 2/1 100 0-6 Laom ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 6

Project/Site:	19020 - South Ripley	City/County:	Chautauqua (County	Sampling Date: 06/29/2020		
Applicant/Owner:	' '	Gen LLC		ate: New York			
• • • • • • • • • • • • • • • • • • • •	Matt Spadoni & Sam Parker	Section, Towns			vn of Ripley		
Landform (hillslope, terrace, etc		Local relief (concave, c		Concave	· /		
Subregion (LRR or MLRA):		Lat: 42.18490	· —	-79.6706992			
Soil Map Unit Name:		nts complex, frequently floo		NWI classificatio			
· ———	ons on the site typical for this time			explain in Remarks	,		
	• •	significantly disturbed?		•	•		
		. • ,		cumstances" prese			
Are Vegetation, Soil	X , or Hydrology		•	ain any answers in l	·		
SUMMARY OF FINDING	S - Attach site map show	ing sampling point	locations, transec	ts, important t	eatures, etc.		
Hydrophytic Vegetation Prese	ent? Yes X N	No Is th	ne Sampled Area				
Hydric Soil Present?			nin a Wetland?	Yes X	No		
Wetland Hydrology Present?			es, optional Wetland Site	e ID:	Wetland 6		
	procedures here or in a separat stream outwash sediments	e report.)					
HYDROLOGY							
Wetland Hydrology Indicato				0	A (i-i		
-	of one required; check all that ap				tors (minimum of two required)		
Surface Water (A1)		ater-Stained Leaves (B9)		Surface Soil	` '		
High Water Table (A2)		quatic Fauna (B13)		X Drainage Pa			
X Saturation (A3)		arl Deposits (B15)		Moss Trim L	, ,		
Water Marks (B1)							
X Sediment Deposits (B2)		•			` ,		
X Drift Deposits (B3)	Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)							
Iron Deposits (B5)		in Muck Surface (C7)		X Geomorphic			
Inundation Visible on Ae	- · · · · —	her (Explain in Remarks)		Shallow Aqu			
Sparsely Vegetated Con	cave Surface (B8)				aphic Relief (D4)		
				X FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?	Yes No X D	Depth (inches):					
Water Table Present?		Depth (inches): 6					
Saturation Present?		· · · /	Watland Hyd	rology Procent?	Vos. V. No.		
	Yes <u>X</u> No [Depth (inches): 6	welland riyu	rology Present?	Yes X No		
(includes capillary fringe)							
Describe Recorded Data (stre	eam gauge, monitoring well, aeria	al photos, previous inspecti	ons), if available:				
	3.13., 1.1. 3.1,11.	,, p	,,				
Remarks:							

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:30)	%Cover	Species?	Status	
ee stratum (Fiot size)	/00010.	_ орсою.	Otatuo	Total Number of Dominant
				Species Across All Strata: 1 (B)
				Species Across Air Strata.
-				To the state of th
				Percent of Dominant Species That Are ORL FACIAL or FAC: 100.0 (A/R)
•				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	0	_ = Total Cov	er	
apling/Shrub Stratum (Plot size: 15)				OBL species 80 x 1 = 80
				FACW species 10 x 2 = 20
		- ———		FAC species 20 x 3 = 60
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals:110 (A)160 (B)
			-	Prevalence Index = B/A = 1.45
		_		
		- Total Cov		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Carex stricta / Uptight sedge	80	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
Eutrochium purpureum / Sweet-scented joe-pye-weed	10	No	FAC	4 - Morphological Adaptations (Provide supporting
Apocynum cannabinum / Indian hemp	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Impatiens capensis / Spotted jewelweed	10	No	FACW	Problematic Hydrophytic vegetation (Explain)
				and the second s
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
•				breast height (DBH), regardless of height.
·				Sapling/shrub - Woody plants less than 3 in. DBH and
	110	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
			· · · · · · · · · · · · · · · · · · ·	height.
		_		noight.
		= Total Cov		Hydrophytic
		10(a) 007	ei	Vegetation
				_
				Present? Yes X No

SOIL Sampling Point: 006-2W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u> </u>
0-16	10YR 3/2	100					Sandy mineral			
16-20	10YR 3/2	90	10YR 4/6	10	С	M	Loam			
		-								
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	Matrix.
							l1!4	for Doole		0-11-3-
Hydric Soil I				0 ((0)	o)				ematic Hydric	
Histosol	` '		Polyvalue Belov				_	-) (LRR K, L, I	
	oipedon (A2)		Thin Dark Surfa						edox (A16) (L	
	stic (A3)		Loamy Mucky N		(LKR K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					-	(7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix	. ,					v Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Su						ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark					ū	•) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (TF	⁻ 12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain ii	n Remarks)	
3Indicators of	hydrophytic vegetation	and watland	hydrology must be n	rocont unloc	se dieturbed	or probler	natio			
indicators of	Trydrophytic vegetation	and welland	mydrology mast be p	TC3CIII, UIIIC3		- Problem	nauc.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
Cinano.										

Project/Site:	19020 - South Ripley	City/Cou	nty: Cha	utauqua County	Sampling Date:	06/30/2020		
Applicant/Owner:	Conr	nectGen LLC		State: New Yor	k Sampling Point:	006-3W		
Investigator(s):	Matt Spadoni & Tiffany Clay	Section,	Township, Range:		Town of Ripley			
Landform (hillslope, terrace, et			ave, convex, none):	Concave	Slope	e (%): 0-3		
Subregion (LRR or MLRA):	· · · · · · · · · · · · · · · · · · ·			Long: -79.6724				
Soil Map Unit Name:	Fluvaque	ents-Udifluvents complex		NWI classific	cation:	PEM		
Are climatic / hydrologic condit			X No	(If no, explain in Ren	narks.)			
Are Vegetation, Soil	, or Hydrology	significantly disturbed	d? Are "No	 ormal Circumstances" pi	esent? Yes	No X		
	X , or Hydrology			ded, explain any answer	s in Remarks.)			
SUMMARY OF FINDING	SS - Attach site map sh	nowing sampling p	oint locations, t	transects, importa	nt features, etc.			
Hydrophytic Vegetation Pres	-	No	Is the Sampled A		•			
Hydric Soil Present?	Yes		within a Wetland		X No			
Wetland Hydrology Present?		No No	If yes, optional We		Wetland 60	_		
	e procedures here or in a sep a braid if the stream but has si		nd filled in with wetlar	nd veg. The ground is ve	ery rocky, and only 3-6	inches to		
HYDROLOGY								
Wetland Hydrology Indicat	ors:							
	n of one required; check all tha	it apply)		Secondary In	dicators (minimum of	two required)		
Surface Water (A1)	Χ	Water-Stained Leaves (B9)		Soil Cracks (B6)			
High Water Table (A2)	_	Aquatic Fauna (B13)	,		e Patterns (B10)			
Saturation (A3)								
X Water Marks (B1)	_	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)						
X Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)						
Drift Deposits (B3)	_	Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	<u> </u>	Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)						
Iron Deposits (B5)	_	Thin Muck Surface (C7) X Geomorphic Position (D2)						
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	rks)	X Shallow	Aquitard (D3)			
Sparsely Vegetated Co	ncave Surface (B8)				ographic Relief (D4)			
				X FAC-Ne	utral 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):	Wetl	and Hydrology Presen	t? Yes X	No		
(includes capillary fringe)						' 		
December December Detector				In.				
Describe Recorded Data (Sil	ream gauge, monitoring well, a	aeriai priotos, previous in	spections), ii avallab	ile:				
Remarks:								
						Į.		

2.	al Cover /es al Cover /es //es		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Tree Stratum (Plot size: 30 %Cover Special	al Cover /es al Cover /es //es	FAC OBL	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Total % Cover of: Multiply by: 0BL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 0 UPL species 0 x 5 = 0 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Tree Stratum (Plot size:	al Cover /es al Cover /es //es	FAC OBL	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species 25 FACW species 25 FAC species 75 FAC uspecies 0 UPL species 0 Column Totals: 125 Prevalence Index end and a species 125 FACW species 125 FACU species 125 FACU species 125 FACU species 125 FACU species 125 Column Totals: 125 Column Totals: 125 FACU species 125 Column Totals: 125 Colu
1. Salix discolor / Pussy willow 15 Yo 2. 3. 4. 5. 6. 7. 15 = Total Sapling/Shrub Stratum (Plot size: 15) 15 = Total 15 16	al Cover al Cover /es /es No	FAC	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species 25 FACW species 25 FAC species 75 FAC uspecies 0 UPL species 0 Column Totals: 125 Prevalence Index e B/A = 1- Rapid Test for Hydrophytic Vegetation X 2- Dominance Test is >50%
1. Salix discolor / Pussy willow 2. 3. 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 6. 7. 15 = Tota Sapling/Shrub Stratum (Plot size: 5) 1. Eutrochium purpureum / Sweet-scented joe-pye-weed 75 Ye 2. Myosotis scorpioides / Forget me not, Water forget-me-not 25 Ye 3. Impatiens capensis / Spotted jewelweed 10 Ne 4. 5. 6. 7. 8. 9. 10. 11. 12.	al Cover al Cover /es /es No	FAC	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
3.	al Cover al Cover /es /ves	FAC OBL	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
3	al Cover al Cover /es /ves	FAC OBL	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
4	al Cover al Cover /es /ves	FAC OBL	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
5	al Cover al Cover (es (es No	FAC OBL	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
6.	al Cover al Cover (es (es	FAC OBL	Prevalence Index worksheet: Total % Cover of:
7	al Cover al Cover (es No	FAC OBL	Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
15	al Cover /es No	FAC OBL	OBL species 25 x 1 = 25 FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Sapling/Shrub Stratum (Plot size:	al Cover /es No	FAC OBL	FACW species 25 x 2 = 50 FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
1.	al Cover /es /os	FAC OBL	FAC species 75 x 3 = 225 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
2.	al Cover /es /os	FAC OBL	FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
3.	al Cover /es /es	FAC OBL	UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
4. 5. 6. 7. 1. Eutrochium (Plot size: 5) 1. Eutrochium purpureum / Sweet-scented joe-pye-weed 75 Ye 2. Myosotis scorpioides / Forget me not, Water forget-me-not 25 Ye 3. Impatiens capensis / Spotted jewelweed 10 N 4. 5. 6. 7. 8. 9. 10. 11. 12.	al Cover /es /os	FAC OBL	UPL species 0 x 5 = 0 Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
5. 6. 7. 0 = Total Herb Stratum (Plot size: 5) 1. Eutrochium purpureum / Sweet-scented joe-pye-weed 75 Ye 2. Myosotis scorpioides / Forget me not, Water forget-me-not 25 Ye 3. Impatiens capensis / Spotted jewelweed 10 N 4. 5. 6. 7. 8. 9. 10. 11. 12.	al Cover /es /es	FAC OBL	Column Totals: 125 (A) 300 (B) Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
6	al Cover /es /es No	FAC OBL	Prevalence Index = B/A = 2.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
7	al Cover /es /es No	FAC OBL	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Herb Stratum (Plot size:	/es	OBL	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5)	/es	OBL	X 2 - Dominance Test is >50%
1. Eutrochium purpureum / Sweet-scented joe-pye-weed 75 Ye 2. Myosotis scorpioides / Forget me not, Water forget-me-not 25 Ye 3. Impatiens capensis / Spotted jewelweed 10 N 4. 5. 6. 7. 8. 9. 10. 11. 11. 12. 12. 12.	/es No	OBL	X 2 - Dominance Test is >50%
2. Myosotis scorpioides / Forget me not, Water forget-me-not 25 Ye 3. Impatiens capensis / Spotted jewelweed 10 N 4. 5. 6. 7. 8. 9. 10. 11. 12.	/es No	OBL	
3. Impatiens capensis / Spotted jewelweed 10 N 4.	No		X 3 - Prevalence Index ≤3.01
4		FACW	4 - Morphological Adaptations (Provide supporting
5			Problematic Hydrophytic Vegetation¹ (Explain)
6			: rosiomato rijaroprijao rogotatom (zispiami)
7			¹ Indicators of hydric soil and wetland hydrology must
8. 9. 10. 11. 12.			be present, unless disturbed or problematic.
9.			be present, unless distarbed or problematic.
10			Definitions of Vegetation Strata
11			
11			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
110 – 1018	al Cover		greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30			Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2.			Woody vines - All woody vines greater than 3.28 ft in
3.			height.
4.			
	al Cover		Hydrophytic
			Vegetation
			Present? Yes X No
			<u> </u>

SOIL Sampling Point: 006-3W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features % Loc² (inches) Color (moist) Color (moist) Type¹ Remarks Texture 10YR 3/2 100 0-6 Sandy W/ mine ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Χ Remarks: Bedrock at 6. Soils likely developed from sediment deposition from stream 4. The area had hydrophytic plants and signs of recent flooding, however since the area was a streambed, and the water course has only recently changed, hydric soils have not developed here yet

Project/Site:	19020 - South Ripley	City/Cou	unty: Cha	autauqua County	Sampling Date: 07/13/2020			
Applicant/Owner:		ConnectGen LLC	,	State: New York				
Investigator(s):	Matt Spadoni	Section.	Township, Range:		vn of Ripley			
	ce, etc): Hillside see	_	cave, convex, none)		. ,			
	A): LRR R MLRA 13		.18941503	Long: -79.6728016				
				NWI classification				
	conditions on the site typical for			(If no, explain in Remark				
, ,	, Soil, or Hydrology			Normal Circumstances" prese	,			
	, Soil, or Hydrology			eded, explain any answers in				
·	DINGS - Attach site ma	·		• •	·			
				-	reatures, etc.			
Hydrophytic Vegetation		X No	Is the Sampled					
Hydric Soil Present?		X No	within a Wetland					
Wetland Hydrology Pre	esent? Yes	X No	If yes, optional W	etland Site ID:	Wetland 6			
Remarks: (Explain alte	rnative procedures here or in a	senarate report)	•					
rtomanto. (Explain alto	manyo procoduroo noro or mre	ooparato roporti,						
HYDROLOGY								
Wetland Hydrology Ir	idicators:							
Primary Indicators (mir	nimum of one required; check a	all that apply)		Secondary Indica	tors (minimum of two required)			
Surface Water (A	1)	X Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)			
High Water Table	(A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)			
X Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)			
Water Marks (B1)		X Hydrogen Sulfide Odor	r (C1)	Dry-Season	Water Table (C2)			
Sediment Deposit	s (B2)	Oxidized Rhizospheres	s on Living Roots (C					
Drift Deposits (B3)	Presence of Reduced Iron (C4) X Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crus	t (B4)	Recent Iron Reduction in Tilled Soils (C6) X Stunted or Stressed Plants (D1)						
Iron Deposits (B5)	Thin Muck Surface (C7	')	X Geomorphic	Position (D2)			
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in Rema	arks)	X Shallow Aqu	uitard (D3)			
Sparsely Vegetate	ed Concave Surface (B8)	_		Microtopogr	aphic Relief (D4)			
				X FAC-Neutra	Test (D5)			
F: 1101 .:								
Field Observations:	0 V N-	V D						
Surface Water Present								
Water Table Present?	Yes No	X Depth (inches):		41	V V N-			
Saturation Present?	Yes X No _	Depth (inches):	We	tland Hydrology Present?	Yes X No			
(includes capillary fring	e)							
Describe Recorded Da	ta (stream gauge, monitoring v	vell, aerial photos, previous ir	nspections), if availa	ble:				
	(gg-,	, р, р	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Remarks:								

					V
				Dominance Test worksheet:	
				Number of Dominant Species	
	bsolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 6 (A	J
	6Cover	Species?	Status		,
Betula alleghaniensis / Yellow birch	50	Yes	FAC	Total Number of Dominant	
Tsuga canadensis / Eastern hemlock	20	Yes	FACU	Species Across All Strata: 8 (B	٠,
3.	20	103	TAGO	Species Across Air Strata.	,
				Dercent of Deminent Species	
			· ———	Percent of Dominant Species	(D)
5			- ———	That Are OBL, FACW, or FAC: 75.0 (A	/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
-	70	= Total Cov	er		
Sapling/Shrub Stratum (Plot size:)				· — — — —	
Tsuga canadensis / Eastern hemlock	10	Yes	FACU	FACW species 50 x 2 = 100	
2. Betula alleghaniensis / Yellow birch	10	Yes	FAC	FAC species 70 x 3 = 210	
3				FACU species 30 x 4 = 120	
4				UPL species 0 x 5 = 0	
5				Column Totals: 205 (A) 485	(B)
6.				Prevalence Index = B/A = 2.37	
7.		-			
	20	= Total Cov	er	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation	
1. Impatiens capensis / Spotted jewelweed	35	Yes	FACW	X 2 - Dominance Test is >50%	
Ranunculus flabellaris / Water buttercup	30	Yes	OBL	X 3 - Prevalence Index ≤3.01	
·	25	Yes		4 - Morphological Adaptations (Provide supporting	
3. Myosotis scorpioides / Forget me not, Water forget-me-not			OBL	Problematic Hydrophytic Vegetation¹ (Explain)	
4. Onoclea sensibilis / Sensitive fern	15	No No	FACW		
5. Solidago rugosa / Wrinkle-leaf goldenrod	10	Yes	FAC	¹Indicators of hydric soil and wetland hydrology must	
6				be present, unless disturbed or problematic.	
7					
8				Definitions of Vegetation Strata	
9					
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a	at
11.		- '-		breast height (DBH), regardless of height.	
12.		- '		Sapling/shrub - Woody plants less than 3 in. DBH and	
	115	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)		_		, , , ,	£
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
2.		-	· ——		
2			- ———	Woody vines - All woody vines greater than 3.28 ft in	
3		-	· ———	height.	
4				Harden also 4th	
-	0	_ = Total Cov	er	Hydrophytic	
				Vegetation	
				Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separate re	enort)			.1	
Remarks: (Explain alternative procedures here or in a separate re	port.)				
Remarks: (Explain alternative procedures here or in a separate re	port.)			Present? Yes X No	

SOIL Sampling Point: 006-4W

Depth	Matrix		Redo	x Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 2/1	100		_	·	_	Mucky loam			
8-18	10Y 3/1	90	10YR 6/8	10	С	М	Clay			
			-		·					
				-						
			1	-		_				
	-									
					· ——					
	-		-	-						
					· —— ·					
					· ——					
Type: C=Cor	ncentration, D=Depletion		red Matrix MS=Mas	ked Sand Gr	aine		21 003	tion: PI =P	ore Lining, M=N	latriv
		i, itivi–iteui		Neu Sanu Gi	allis.			ation. r L=r	Ole Lilling, M-W	ialii.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, M	LRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	RR R, MLRA	149B)	Coas	t Prairie Re	edox (A16) (LR	R K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	/lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3)	LRR K, L, R)
 Hydroge	n Sulfide (A4)		X Loamy Gleyed	Matrix (F2)					7) (LRR K, L)	
	Layers (A5)		X Depleted Matrix					-	v Surface (S8)	LRR K, L)
	d Below Dark Surface (A	(11)	Redox Dark Su						ce (S9) (LRR K	
	ark Surface (A12)	,	Depleted Dark				_		Masses (F12)	
	lucky Mineral (S1)		Redox Depress					ū	plain Soils (F19)	
	Gleyed Matrix (S4)			()					A6) (MLRA 14	
	ledox (S5)							Parent Mat		,,,
	Matrix (S6)						_		ark Surface (TF1	2)
	rface (S7) (LRR R, ML	RA 149R)							n Remarks)	_/
Dark ou	ridoc (or) (Errich, III.	1400)						(Explain i	i i (cinano)	
Indicators of	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
Restrictive L	ayer (if observed):									
-										
Type:							Hydric Soil P	resent?	Yes X	No
Type: Depth (in	ches):									
Depth (in	ches):									
Depth (in	ches):									
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Depth (in	ches):									
Depth (in	ches):									

Project/Site:	19020	- South Ripley	City/Co	ounty:	Chautaugua County	Sam	pling Date:	06/30/2020
Applicant/Owner:			nectGen LLC		State: New			007-1U
Investigator(s):		MS, SPF	Section	n, Township, Ran		Town of	. <u> </u>	
Landform (hillslope, ter	race, etc):	Hillslope		ncave, convex, no			Slope	(%): 5
Subregion (LRR or MLI				2.18525007	•	7284843	 Datum	n: NAD 83
Soil Map Unit Name:	,		ents-Udifluvents comple	ex	NWI clas	sification:		
Are climatic / hydrologic	c conditions on th	e site typical for this	time of year? Yes	X No	(If no, explain in F	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significantly disturb	ed? Ai	e "Normal Circumstances	" present?	Yes X	(No
			naturally problemat	tic? (If	needed, explain any ans	wers in Rema	arks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map sh	owing sampling	point locatio	ns, transects, impo	rtant feati	ures, etc.	
Hydrophytic Vegetati		Yes	No X	Is the Samp			•	
Hydric Soil Present?		Yes	No X	within a Wet			No X	
Wetland Hydrology F		Yes	No X		al Wetland Site ID:			=
				,, ., .,				
Remarks: (Explain al	Iternative procedu	ures here or in a sepa	arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators:							
		equired; check all tha	t apply)		Secondar	v Indicators ((minimum of ty	wo required)
Surface Water (4	Water-Stained Leaves	s (B9)		ce Soil Crac		
High Water Tab	` '	_	Aquatic Fauna (B13)	- (/		age Pattern		
_ ·	Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16)							
Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)								
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)								
Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)								agery (C9)
	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)							
Iron Deposits (E	35)		Thin Muck Surface (C	57)	Geor	norphic Posi	tion (D2)	
Inundation Visib	ole on Aerial Imag	Jery (B7)	Other (Explain in Rem	narks)	Shal	ow Aquitard	(D3)	
Sparsely Vegeta	ated Concave Sur	rface (B8)			Micro	otopographic	Relief (D4)	
					FAC-	Neutral Test	(D5)	
Field Observations								
Field Observations		s No X	Donth (inches):					
Surface Water Prese Water Table Present		s NoX s						
Saturation Present?			_ ' '		Watland Hydrology Pro	cont2	Voc	No X
(includes capillary fri	Yes	, NO	Depth (inches):		Wetland Hydrology Pre	sentr	Yes	No X
(includes capillary in	inge <i>)</i>							
Describe Recorded [Data (stream gau	ge, monitoring well, a	aerial photos, previous	inspections), if a	railable:			
-								
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:007-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Trac Ctrature (Diet size) 20				That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	THE STATE OF THE S
1. Tsuga canadensis / Eastern hemlock	40	Yes	FACU	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	20	Yes	FAC	Species Across All Strata: 5 (B)
3. Fagus grandifolia / American beech	10	No No	FACU	
4. Prunus pensylvanica / Pin cherry	2	No	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40.0 (A/B)
6	_	_		Parameter and the description of the section of the
7		_		Prevalence Index worksheet:
	72	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	5	Yes	FACU	FACW species 0 x 2 = 0
2		_		FAC species 40 x 3 = 120
3				FACU species 67 x 4 = 268
4.				UPL species 0 x 5 = 0
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 3.63
7.		_		
-	5	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
1. Dryopteris intermedia / Evergreen wood fern	20	Yes	FAC	2 - Dominance Test is >50%
Acer saccharum / Sugar maple	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
	2		FACO	4 - Morphological Adaptations (Provide supporting
3. Cornus / Dogwood		No		Problematic Hydrophytic Vegetation¹ (Explain)
4		_		
5	<u> </u>			¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7	-	_		
8		_		Definitions of Vegetation Strata
9				
10	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11		_		breast height (DBH), regardless of height.
12		_		Sapling/shrub - Woody plants less than 3 in. DBH and
	32	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				<u> </u>
-	0	= Total Cov	er	Hydrophytic
		_	-	Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	report.)			
, ,	. ,			

SOIL Sampling Point: 007-1U

Depth	ription: (Describe to th Matrix	p		x Features	• • • • • • • • • • • • • • • • • • • •			•			
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture		Remar	ks	
0-1	10YR 2/1	100					Loam				
1-8	10YR 4/6	100					Sandy				
				_							
	-			_							
	-			-			-				
	·										
				-							
T. (20.0)			and Matrix, MC-Man	Lead Cand Cre			21	nni DI -Di	ara Linina A	1-Matrix	
Type: C=Col	ncentration, D=Depletion	n, RIVI=Reduc	ced Matrix, MS=Mas	ked Sand Gra	ains.		Locatio	on: PL=P	ore Lining, N	/I=IVIatrix.	
Hydric Soil I	ndicators:						Indicators f	or Proble	ematic Hyd	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S8) (LRR R,M	LRA 149E	3) 2 cm M	uck (A10) (LRR K, L	., MLRA 14	9B)
Histic E	oipedon (A2)	•	Thin Dark Surfa	ice (S9) (LR	R R, MLRA 1	49B)	Coast F	Prairie Re	dox (A16)	(LRR K, L,	R)
	stic (A3)	•	Loamy Mucky N			,			t or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		, ,				7) (LRR K,		, ,
	d Layers (A5)	-	Depleted Matrix						Surface (S	-	1.)
	d Below Dark Surface (A	.11)	Redox Dark Su						ce (S9) (LR		-,
			Depleted Dark	, ,					Masses (F		/ I D\
	ark Surface (A12)	-	 -					ū	•	, .	
	Mucky Mineral (S1)	-	Redox Depress	ions (F8)					olain Soils (F		-
	Gleyed Matrix (S4)								46) (MLRA	، 144A, 145	, 149B)
	Redox (S5)								erial (F21)		
	l Matrix (S6)								rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other (Explain in	Remarks)		
3Indicators of	hydrophytic vocatation	and watland	hydrology muot bo n	rocent unles	a diaturbad a	r problema	atio				
-indicators of	hydrophytic vegetation	and welland	nydrology must be p	meseni, unies	s disturbed o	problema	auc.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Pre	sent?	Yes	No	X
Damarka											
Remarks:	Refusal at 8										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	06/30/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	· · · · · · · · · · · · · · · · · · ·	tate: New York	· · · -	007-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Township			vn of Ripley	
Landform (hillslope, terrace,			elief (concave, conv		Concave		(%): 1-5
Subregion (LRR or MLRA):							` '
Soil Map Unit Name:		/aquents-Udifluvent			NWI classification		PFO
Are climatic / hydrologic cond		· ·			rww classification, explain in Remarks		10
, ,	oil, or Hydrology	•	y disturbed?		rcumstances" prese	,	(No
	oil , or Hydrology	 •			lain any answers in		
						•	
SUMMARY OF FINDIN	GS - Attach Site maj		- 	cations, transe	cts, important	reatures, etc.	
Hydrophytic Vegetation Pro	esent? Yes	X No		Sampled Area			
Hydric Soil Present?	Yes	X No	within	a Wetland?	Yes X	No	_
Wetland Hydrology Preser	nt? Yes	X No	_ If yes,	optional Wetland Sit	te ID:	Wetland 7	
Demonstra /Funtain alternat	ii o nanaadu aan baan aa in a	concrete report \					
Remarks: (Explain alternal	tive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indic	ators:						
	ım of one required; check a	II that apply)			Secondary Indica	ators (minimum of to	wo required)
X Surface Water (A1)	or one required, encoura	X Water-Stained	d Leaves (B9)			Cracks (B6)	
High Water Table (A2)	Aquatic Faun	` '		X Drainage Pa		
X Saturation (A3)	,	Marl Deposits			Moss Trim L		
Water Marks (B1)		X Hydrogen Sul				Water Table (C2)	
Sediment Deposits (E	(2)		cospheres on Living	Poots (C3)	Crayfish Bur		
Drift Deposits (B3)	2)		Reduced Iron (C4)	1 100ts (C3)		isible on Aerial Ima	agony (CO)
Algal Mat or Crust (B4	1)		leduction in Tilled S	Poils (C6)		Stressed Plants (D1	
_ ·	1)			oolis (CO)		,)
Iron Deposits (B5)	Aprial Images (D7)	Thin Muck Su			X Geomorphic		
Inundation Visible on		Other (Explain	n in Remarks)		Shallow Aqu		
Sparsely Vegetated C	oncave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	i iesi (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inche	es): 2				
Water Table Present?	Yes X No	Depth (inche	•	-			
Saturation Present?	Yes X No	Depth (inche	· ———	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)	103 <u>X</u> 110 _	Depti (illent	20). 10	_ ''cliana ny	arology i resent.	100	
(molades capillary minge)							
Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, p	revious inspections	s), if available:			
			•				
Remarks:							

Tree Stratum (Plot size: 30) %Co 1. Betula alleghaniensis / Yellow birch 2. Acer saccharum / Sugar maple 3. 4. 5. 6. 6. 6. 7. 6. <td< th=""><th>65</th><th>Species? Yes Yes Total Cover</th><th></th><th>Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 15 x 1 = 15</th></td<>	65	Species? Yes Yes Total Cover		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 15 x 1 = 15
Tree Stratum (Plot size: 30) %Co 1. Betula alleghaniensis / Yellow birch 2. Acer saccharum / Sugar maple 3. 4. 5. 6. 7. 5. 6. 7. 5. 6. 7. <td< td=""><td>50 15 65</td><td>Species? Yes Yes Total Cover</td><td>Status FAC FACU</td><td>That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:</td></td<>	50 15 65	Species? Yes Yes Total Cover	Status FAC FACU	That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Tree Stratum (Plot size: 30) %Co 1. Betula alleghaniensis / Yellow birch 2. Acer saccharum / Sugar maple 3. 4. 5. 6. 7. 5. 6. 7. 5. 6. 7. <td< td=""><td>50 15 65</td><td>Species? Yes Yes Total Cover</td><td>Status FAC FACU</td><td>Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:</td></td<>	50 15 65	Species? Yes Yes Total Cover	Status FAC FACU	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
1. Betula alleghaniensis / Yellow birch 2. Acer saccharum / Sugar maple 3. 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	50 15	Yes Yes Total Cover	FAC FACU	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
1. Betula alleghaniensis / Yellow birch 2. Acer saccharum / Sugar maple 3. 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	50 15	Yes Yes Total Cover	FAC FACU	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
2. Acer saccharum / Sugar maple 3. 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 5.	65	Yes = Total Cover	FACU	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
3.	65	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
4.	65	= Total Cover		That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
5.	65	= Total Cover		That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
6	65	= Total Cover		Prevalence Index worksheet:
7	65	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5.				Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:				
1. 2. 3. 4. 5				
2				FACW species 45 x 2 = 90
3				FAC species 55 x 3 = 165
4		<u> </u>		FACU species 15 x 4 = 60
5.				UPL species 0 x 5 = 0
				· — — — —
6.				Column Totals: 130 (A) 330 (B)
				Prevalence Index = B/A = 2.54
7				Hydrophytic Vegetation Indicators:
	0	= Total Cover	r	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	20	Yes	FACW	
2. Chrysosplenium americanum / American golden-saxifrage	15	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Onoclea sensibilis / Sensitive fern	15	Yes	FACW	4 - Morphological Adaptations (Provide supporting
4. Dryopteris carthusiana / Spinulose wood fern	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5. Arisaema triphyllum / Jack-in-the-pulpit	5	No	FAC	
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7		- ——		
8				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		- ——		breast height (DBH), regardless of height.
12	05	- 		Sapling/shrub - Woody plants less than 3 in. DBH and
	65	= Total Cove	r	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3		<u> </u>		height.
4				
<u> </u>	0	= Total Cover	r	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 007-1W

Profile Description Depth	ription: (Describe to t Matrix	he depth ne		he indicator x Features	or confirm	the abser	nce of indicator	s.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
							Mucky loam			
0-6	10Y 2/1	100								
6-18	10YR 3/1	100					Mucky Sand			
0-10	1011(3/1	100								
										_
¹Type: C=Cor	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=F	ore Lining, M=N	Matrix.
Hydric Soil II	ndicators:						Indicators	for Probl	ematic Hydric	Soils ³ :
Histosol			Polyvalue Belov	w Surface (S8	8) (LRR R, l	MLRA 149) (LRR K, L, M	
Histic Ep	ipedon (A2)		Thin Dark Surfa			149B)			edox (A16) (LR	
Black His			Loamy Mucky N		(LRR K, L)		5 cm	Mucky Pe	at or Peat (S3)	(LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed					•	(LRR K, L)	
	Layers (A5)	A 44 \	Depleted Matrix	, ,					v Surface (S8)	
	l Below Dark Surface (irk Surface (A12)	ATT)	Redox Dark Su Depleted Dark						ce (S9) (LRR I e Masses (F12)	
	lucky Mineral (S1)		Redox Depress					ū	plain Soils (F19)	
	leyed Matrix (S4)			- (-)					A6) (MLRA 14	
Sandy R	edox (S5)						Red I	Parent Mat	erial (F21)	
	Matrix (S6)								ark Surface (TF	12)
Dark Sui	face (S7) (LRR R, MI	LRA 149B)					Other	(Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or probler	natic.			
	ayer (if observed):									
Type:	ayer (ii observed).									
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Б									·	
Remarks:										

Project/Site:	19020 - S	South Ripley	City	/County:	Chautauqua	County	Sampling Date:	06/30/2020
Applicant/Owner:			nnectGen LLC	,		ate: New York		008-1U
Investigator(s):		IS, SPF		tion, Township, R			wn of Ripley	
Landform (hillslope, terra		•		concave, convex		Convex		(%): 5
Subregion (LRR or MLRA			Lat:	42.18525007	Long:		·	
Soil Map Unit Name:			uents-Udifluvents cor		Long	NWI classification		i. 14AD 00
Are climatic / hydrologic					/If no	 explain in Remark		
, ,			•			•	•	(No
			significantly dist			cumstances" prese		NO
		·	naturally proble			ain any answers in	•	
SUMMARY OF FIN	DINGS - Attac	n site map s	nowing samplir	ig point locat	ions, transec	cts, important	teatures, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is the Sar	npled Area			
Hydric Soil Present?		Yes	No X	within a V	Vetland?	Yes	No X	_
Wetland Hydrology Pre	esent?	Yes	No X	If yes, opti	onal Wetland Sit			_
								<u> </u>
Remarks: (Explain alte	ernative procedure	s here or in a ser	parate report.)					
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min	nimum of one requ	ired; check all th	at apply)				ators (minimum of t	wo required)
Surface Water (A	1)	_	_ Water-Stained Lea	, ,		Surface Soi	l Cracks (B6)	
High Water Table	(A2)	_	_ Aquatic Fauna (B1	3)		Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B1	5)		Moss Trim L	ines (B16)	
Water Marks (B1))		Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposit	ts (B2)		Oxidized Rhizosph	eres on Living Ro	oots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Redu	ced Iron (C4)		Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	t (B4)		Recent Iron Reduc	tion in Tilled Soils	s (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5			Thin Muck Surface	e (C7)	` ,	Geomorphic	Position (D2)	•
	on Aerial Imagery	v (B7)	Other (Explain in F			Shallow Aqu		
	ed Concave Surfa			,			aphic Relief (D4)	
opa.co., regetati		35 (25)				FAC-Neutra		
					1			
Field Observations:								
Surface Water Present	t? Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hyd	Irology Present?	Yes	No X
(includes capillary fring	ge)		_ ' ' '	_		0,7		
Describe Recorded Da	ata (stream gauge,	, monitoring well,	aerial photos, previo	us inspections), i	available:			
Remarks:								

Absolute Dominant Indicator Number of Dominant Species Statum (Plot size: 30 Mode) Number of Dominant Species Number of Dominant Number of Dominan	VEGETATION - Use scientific names of plants.				Sampling Point:008-1U
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)					Dominance Test worksheet:
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 2 (A)					
Tree Stratum (Plot size: 30 3 40 40 40 40 40 40		Absoluto	Dominant	Indicator	·
1. Tauga canadensis / Eastern hemlock	T 01 1 (DI 1 : 00)				That Are OBL, FACW, OF FAC: (A)
2					
3. Fagus grandifolia / American beech					
A. Prunus pensylvanica / Pin cherry 2	Betula alleghaniensis / Yellow birch	20	Yes	FAC	Species Across All Strata: 5 (B)
That Are OBL, FACW, or FAC: 40.0 (A/B)	3. Fagus grandifolia / American beech	10	No	FACU	
Figure F	4. Prunus pensylvanica / Pin cherry	2	No	FACU	Percent of Dominant Species
Total Cover Total % Cover of: Total % Cover of: Total % Cover of: Multiply by: Dots Dots Multiply by: Dots Multi	5.				That Are OBL, FACW, or FAC: 40.0 (A/B)
Total Cover	6.				
Total % Cover of:		-			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	··	72	= Total Cov	ar .	Total % Cover of: Multiply by:
Facus grandifolia American beech 5 Yes FACU FAC species 0 X 2 = 0	Capling/Chrub Ctratum (Dlot aize) 15		_ = 10tai 000	J 1	
FAC species 40 x 3 = 120		_	\/	FACIL	
FACU species 67				FACU	
3.	2	-		· 	
4. Column Totals: 107 (A) 388 (B) 6. Column Totals: 107 (A) 388 (B) 7. Column Totals: 107 (A) 388 (B) Prevalence Index = B/A = 3.63 Frevalence Index = B/A = 4.60 Frevalence Index = B/A = 4.60 Frevalence Index = B/A	3		_		
Solumin (Flot size 10	4		_	<u> </u>	
6.	5.				
Herb Stratum (Plot size: 5 5 20 Yes FAC 20 Acer saccharum / Sugar maple 10 Yes FAC 20 No 20 No 3 - Prevalence Index ≤3.0' 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 10 Yes FAC 3 - Prevalence Index ≤3.0' 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation' (Explain) 10 Yes FAC 10 Yes 10 Yes FAC 10 Yes 10					Prevalence Index = B/A = 3.63
Herb Stratum (Plot size: 5) 1. Dryopteris intermedia / Evergreen wood fern 2. Acer saccharum / Sugar maple 3. Comus / Dogwood 4. Stratum (Plot size: 5) 2. Acer saccharum / Sugar maple 4. Stratum / Sugar maple 5. No 4. Stratum / Sugar maple 7. Stratum / Sugar maple 8. Stratum / Sugar maple 9. Stratum / Sugar maple 10. Stratum / Sugar maple 11. Sugar maple 12. Sugar maple 13. Sugar maple 14. Morphological Adaptations (Provide supporting Problematic Negations (Provide supporting Negations (Provide supporting Negations (Provide supporting Negati	7				
Herb Stratum (Plot size: 5 1. Dryopteris intermedia / Evergreen wood fern 2. Acer saccharum / Sugar maple 3. Comus / Dogwood 2. No 4. 5	···		= Total Cov		Hydrophytic Vegetation Indicators:
1. Dryopteris intermedia / Evergreen wood fern 2. Acer saccharum / Sugar maple 3. Cornus / Dogwood 4. Solution / Sugar maple 5. Solution / Sugar maple 6. Solution / Sugar maple 7. Solution / Sugar maple 8. Solution / Sugar maple 9. Solution / Sugar maple 10. Solution / Sugar maple 11. Solution / Sugar maple 12. Solution / Sugar maple 13. Solution / Sugar maple 14. Solution / Sugar maple 15. Solution / Sugar maple 16. Solution / Sugar maple 17. Solution / Sugar maple 18. Solution / Sugar maple 19. Solution / Solution	Harb Stratum (Plot size: 5		_ = 10(a) COV	5 1	1 - Rapid Test for Hydrophytic Vegetation
2. Acer saccharum / Sugar maple 3. Comus / Dogwood 4.					2 - Dominance Test is >50%
2. Acer saccharum / Sugar maple 3. Comus / Dogwood 4					3 - Prevalence Index ≤3.01
2 No Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	2. Acer saccharum / Sugar maple		Yes	<u>FACU</u>	_
5	3. Cornus / Dogwood	2	No	<u> </u>	
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Position Positio	4.				Problematic Hydrophytic vegetation (Explain)
6	5.	_,			
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Hydrophytic Vegetation					
8					be present, unless disturbed or problematic.
9.					
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation				·	Definitions of Vegetation Strata
11				· ·	
11	10			. <u> </u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	11		_	<u> </u>	breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30) 1.					Sapling/shrub - Woody plants less than 3 in DBH and
Woody Vine Stratum (Plot size: 30) 1.			= Total Cove	er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. Under the plants less than 3.28 ft in height. The plants less than 3.28 ft in height. Hydrophytic Vegetation	Woody Vine Stratum (Plot size: 30)		_		
2					` '''
3		-	-		
4	2.				, ,
0 = Total Cover Hydrophytic Vegetation	3				neight.
Vegetation	4	-			
		0	_ = Total Cove	er	
Present? Yes No _X					Vegetation
					Present? Yes NoX

SOIL Sampling Point: 008-1U

Depth	ription: (Describe to the Matrix	aspin nee		K Features	o. commin the	. u.J.GIIL	o indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ I	LOC ²	Texture	Remarks
0-1	10YR 2/1	100					Loam	
1-8	10YR 4/6	100					Sandy	
	-							
	•							
	-							
	-							
								
Type: C=Cor	ncentration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gr	ains.		² Location	n: PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators:						Indicators for	r Problematic Hydric Soils³:
Histosol			Polyvalue Belov	v Surface (St	B) (LRR R,ML	RA 149E	3) 2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa	•	, .		· —	airie Redox (A16) (LRR K, L, R)
Black Hi		-	Loamy Mucky M			,		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	=	Loamy Gleyed I		, - ,			face (S7) (LRR K, L)
	Layers (A5)	-	Depleted Matrix					e Below Surface (S8) (LRR K, L)
	l Below Dark Surface (Δ11)	Redox Dark Sur					k Surface (S9) (LRR K, L)
	r Below Bark Gurrace (A rk Surface (A12)	-	Depleted Dark S					iganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)	-	Redox Depress					t Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)	-	Nedox Depless	10113 (1 0)				podic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							ent Material (F21)
	Matrix (S6)	DA 440D)						allow Dark Surface (TF12)
Dark Sui	face (S7) (LRR R, ML	.KA 149D)					Other (E)	xplain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	s disturbed or	oroblema	atic.	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes No X
Remarks:						,		

Project/Site:	19020 - South Ripley		City/County:	Chautauqua (County	Sampling Date:	06/30/2020
Applicant/Owner:	' '	ConnectGen LLC	, , <u> </u>		ate: New York		008-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Township, I			vn of Ripley	
Landform (hillslope, terrace, et			lief (concave, conve		Concave		(%): 3-5
Subregion (LRR or MLRA):		·			-79.6729408		`
Soil Map Unit Name:					NWI classification		PFO
Are climatic / hydrologic condit				lo (If no	explain in Remark		10
, ,	l, or Hydrology	•	disturbed?	`	cumstances" prese	,	(No
	, or Hydrology				ain any answers in		<u> </u>
				•	•	•	
SUMMARY OF FINDING	55 - Attach Site ma			tions, transec	ts, important	eatures, etc.	
Hydrophytic Vegetation Pres	sent? Yes	X No		mpled Area			
Hydric Soil Present?	Yes	X No	within a	Wetland?	Yes X	No	_
Wetland Hydrology Present	? Yes	X No	_ If yes, op	tional Wetland Site	e ID:	Wetland 8	
Demontos /Evaleia elternetis							
Remarks: (Explain alternativ	e procedures nere or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indica	toro:						
Primary Indicators (minimum		all that apply			Cocondon/Indica	tora (minimum of t	vo required)
	i oi one required; check a	,	LL seves (DO)			tors (minimum of ty	wo required)
Surface Water (A1)		Water-Stained	` '		Surface Soil	` ,	
High Water Table (A2)		Aquatic Fauna			Drainage Pa		
X Saturation (A3)		Marl Deposits			Moss Trim L	, ,	
Water Marks (B1)		X Hydrogen Sul				Water Table (C2)	
Sediment Deposits (B2	1)		ospheres on Living F	Roots (C3)	Crayfish Bur		(00)
Drift Deposits (B3)			deduced Iron (C4)	. (00)		isible on Aerial Ima	
Algal Mat or Crust (B4)			eduction in Tilled Soi	Is (C6)		tressed Plants (D1)
Iron Deposits (B5)		Thin Muck Su				Position (D2)	
Inundation Visible on A		Other (Explain	in Remarks)		X Shallow Aqu		
Sparsely Vegetated Co	ncave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutral	Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	V Donth (inche	·o)·				
	Yes No _ Yes No						
Water Table Present?			· ——	Wetlend Hyd	rology Brocont?	Voc. V	No
Saturation Present?	Yes X No	Depth (inche	(S): <u>Z</u>	wettand nyd	rology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (st	ream gauge monitoring v	vell aerial photos p	revious inspections)	if available.			
Bosonibe ricosi ded Bala (el	rouni gaago, montoning v	von, aoriai priotos, p	ovious inopositions,	ii availabio.			
Remarks:							

Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	/EGETATION - Use scientific names of plants.				Sampling Point:008-	1W
Absolute Dominant Indicator Species Status Total Norman Indicator Species Status Total Number of Dominant Species Across All Strata: 3					Dominance Test worksheet:	
Tree Stratum (Plot size: 30 %Cover Species? Status					Number of Dominant Species	
Tree Stratum (Plot size: 30 %Cover Species? Status		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3	(A)
	Tree Stratum (Plot size: 30)	%Cover	Species?	Status		,
3.		15		FAC	Total Number of Dominant	
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	2.		_			(B)
Percent of Dominant Species	2		_			()
That Are OBL, FACW, or FAC: 10.0 (A/E)	1		_		Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:15 15 15	F				•	(A/B)
Total Sapiling/Shrub Stratum (Plot size: 15 15)	•			-		
Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15)	7				Prevalence Index worksheet:	
CBL species 50	· · ·	15	= Total Cov	er	Total % Cover of: Multiply by:	
FACW species 40 x 2 80	Sapling/Shrub Stratum (Plot size: 15)			.	OBL species 50 x 1 = 50	_
2.					FACW species 40 x 2 = 80	_
FACU Species O	2		-	-		_
4	2				FACU species 0 x 4 = 0	_
Column Totals: 105 (A) 175 (B) Prevalence Index = B/A = 1.67 Heft Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is 20% 2 - Dominance Test is 20% 2	4				·	_
6.						– (B)
Herb Stratum (Plot size: 5 0 = Total Cover	•					_ (_,
Herb Stratum (Plot size: 5)	_		_		Trevalence mack Birt 1.07	
Herb Stratum (Plot size: 5) 1. Myosotis scorpioides / Forget me not, Water forget-me-not 40 Yes PACW 2. Impatiens capensis / Spotted jewelweed 40 Yes FACW 3. Chrysosplenium americanum / American golden-saxifrage 10 No OBL 4.	<i>1.</i>				Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)		0	_ = Total Cov	er		
1. Myosotis scorpioldes / Forget me not, Water forget-me-not 40 Yes OBL 2 Impatiens capensis / Spotted jewelweed 40 Yes FACW 3. Chrysosplenium americanum / American golden-saxifrage 10 No OBL 4. — Problematic Hydrophytic Vegetation (Explain) — Problematic Hydrophytic Vegetation (Explain) — Problematic Hydrophytic Vegetation (Explain) — Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 10. — Definitions of Vegetation Strata 11. — Definitions of Vegetation Strata 12. — Sapling/shrub - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation						
2. Impatiens capensis / Spotted jewelweed 40 Yes FACW 3. Chrysosplenium americanum / American golden-saxifrage 10 No OBL 4.		. ———		OBL		
A. Problematic Hydrophytic Vegetation¹ (Explain)	Impatiens capensis / Spotted jewelweed		Yes	FACW		ıa
5.	3. Chrysosplenium americanum / American golden-saxifrage	10	No	OBL		9
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	4		_		Troblematic Tryanophytic Vegetation (Explain)	
be present, unless disturbed or problematic. Definitions of Vegetation Strata	5				1Indicators of hydric soil and wetland hydrology must	
8.	6					
9.	7				be present, unless disturbed or problematic.	
9.	8				Definitions of Vegetation Strata	
10	0					
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: Description: Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: Hydrophytic Vegetation Hydrophytic Vegetati					Tree - Woody plants 3 in (7.6 cm) or more in diamete	r at
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	11.					
Woody Vine Stratum (Plot size: 30) 1.	12.				Sanling/shruh - Woody plants less than 3 in DBH an	nd
Woody Vine Stratum (Plot size: 30) 1.			= Total Cov	er		
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The following is size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	Woody Vine Stratum (Plot size: 30)		_			: of
2 Woody vines - All woody vines greater than 3.28 ft in height. 4 O = Total Cover Hydrophytic Vegetation					, ,,,	· Oi
3	2.		_			
4. O = Total Cover Hydrophytic Vegetation	3.					
0 = Total Cover Hydrophytic Vegetation	4	-			noight.	
Vegetation	···		= Total Cov	 er	Hydrophytic	
			_ 10141 001	0.		
					_	
					1105 X 100	
Remarks: (Explain alternative procedures here or in a separate report.)		. ,				
	No trees really in the wetland, mostly adjacent to	ut				
No trees really in the wetland, mostly adjacent to ut						

SOIL Sampling Point: 008-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features (inches) % Loc2 Color (moist) Color (moist) Type¹ Texture Remarks 10YR 2/1 100 8-0 Mucky loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes X No Remarks: Bedrock at 8

Project/Site:	19020 - So	uth Ripley	City/Co	ounty:	Chautauqua (County	Sampling Date:	06/30/2020
Applicant/Owner:			ectGen LLC	· —		ate: New York		009-1U
Investigator(s):		, SPF		n, Township, Rai			wn of Ripley	
Landform (hillslope, terra		·	Local relief (con			None		(%): 0
Subregion (LRR or MLRA				2.18314806	Long:			
Soil Map Unit Name:			nts-Udifluvents comple		Long	NWI classification		1. 10.15.00
Are climatic / hydrologic of			•		(If no	explain in Remark		
			significantly disturb			cumstances" prese	•	(No
			significantly disturb naturally problemat			in any answers in		<u> </u>
·					· ·	-	•	
SUMMARY OF FINI		Site map site			ons, transec	ts, important	ieatures, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is the Samp	oled Area			
Hydric Soil Present?		Yes	No X	within a We	etland?	Yes	No X	_
Wetland Hydrology Pre	esent?	Yes	No X	If yes, option	nal Wetland Site	: ID:		
Remarks: (Explain alte	rnative procedures I	here or in a separ	rate report.)					
(= 1,5	μ							
HYDROLOGY								
	adicators:							
Wetland Hydrology Ir			1.			0 1 1 "		
Primary Indicators (mir			,	(DO)			ators (minimum of t	wo requirea)
Surface Water (A	,		Water-Stained Leaves	s (B9)			I Cracks (B6)	
High Water Table	(A2)		Aquatic Fauna (B13)				atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	` '	
Water Marks (B1)			Hydrogen Sulfide Odd				Water Table (C2)	
Sediment Deposit	` '		Oxidized Rhizosphere	-	ots (C3)	Crayfish Bu		
Drift Deposits (B3	•		Presence of Reduced	` ,			isible on Aerial Ima	
Algal Mat or Crus			Recent Iron Reductior		(C6)		Stressed Plants (D1)
Iron Deposits (B5))		Thin Muck Surface (C	•		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery ((B7) (Other (Explain in Rem	narks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surface	e (B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Present	t? Yes	No. V	Donth (inches):					
Water Table Present?	-		Depth (inches): Depth (inches):					
	Yes		' '		Wetlered Head	ralamii Duanami?	Van	No. V
Saturation Present?	Yes	No <u>X</u>	Depth (inches):		vvetiano nyo	rology Present?	Yes	No X
(includes capillary fring	je)							
Describe Recorded Da	ata (stream gauge, n	nonitoring well, ae	erial photos, previous i	inspections), if a	available:			
2000001.000.000	(o oa gaago,		ma. priotos, promodo i					
Remarks:								
1								

VEGETATION - Use scientific names of plants.				Sampling Point:009-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That / 10 OBE, 1 / 10 V, 01 1 / 10:
1. Tsuga canadensis / Eastern hemlock	60	Yes	FACU	Total Number of Dominant
Fagus grandifolia / American beech	15	Yes	FACU	Species Across All Strata: 4 (B)
		103	TAGO	Species Across Air Strata (b)
3.				Percent of Dominant Species
4 5.				·
•				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0 11 101 1 01 1 1 1 1 1	75	_ = Total Cov	er	OBL species 0 x1 = 0
Sapling/Shrub Stratum (Plot size: 15)	_			FACW species $0 \times 2 = 0$
1. Fagus grandifolia / American beech	5	Yes	FACU	FAC species 60 x 3 = 180
2				
3				FACU species 143 x 4 = 572
4				UPL species 0 x 5 = 0
5				Column Totals: 203 (A) 752 (B)
6				Prevalence Index = B/A = 3.7
7				Hydrophytic Vegetation Indicators:
	5	= Total Cov	er	
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Podophyllum / Mayapple	25	Yes		2 - Dominance Test is >50%
Dryopteris intermedia / Evergreen wood fern	5	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Fagus grandifolia / American beech	60	No	FAC	4 - Morphological Adaptations (Provide supporting
4. <i>Maianthemum racemosum</i> / Feathery false lily of the valley	3	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5.				
		· ·	· ·	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
0				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	93	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 009-1U

Depth	ription: (Describe to th Matrix	p		x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-1	10 yr 3/3	100					Loam				
1-6	10 yr 3/6	100					Loam				
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Locatio	n: PL=Po	ore Lining, N	/I=Matrix.	
Hydric Soil I	ndicators:						Indicators fo	or Proble	matic Hyd	ric Soile ³ ·	
Histosol			Polyvalue Belov	w Surface (SS	2) /I DD D MI	DA 1/0E) (LRR K, L		0B)
	pipedon (A2)		Thin Dark Surfa						dox (A16)		-
			Loamy Mucky N			96)			t or Peat (S		
	stic (A3) en Sulfide (A4)		Loamy Gleyed		LICK IX, L)				t or Peat (S 7) (LRR K ,		, L , K)
	d Layers (A5)		Depleted Matrix						Surface (S	-	13
	d Below Dark Surface (A	\11\	Redox Dark Su						ce (S9) (LR		, L)
	ark Surface (A12)	111)	Depleted Dark	` '					Masses (F		K I D\
	Mucky Mineral (S1)		Redox Depress					•	olain Soils (F	, .	
	Gleyed Matrix (S4)		Nedox Depless	10115 (1 0)					A6) (MLRA		
	Redox (S5)								erial (F21)	. 1447, 140	, 1436)
	Matrix (S6)								rk Surface (TE12\	
	rface (S7) (LRR R, ML	DA 1/0R)							Remarks)	11 12)	
Daik Su	nace (37) (LIKIX IX, MIL	INA 1430)					Other (E		i itelliaiks)		
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed or	problema	atic.				
				•		· 					
	.ayer (if observed):										
Type:	choc):						Hudria Sail Bras	cont2	Voc	No	v
Depth (in	cnes):						Hydric Soil Pres	sent?	Yes	NO	<u>X</u>
Remarks:											
	Root refusal 6										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	06/30/2020		
Applicant/Owner:		. ,		· · · · · · · · · · · · · · · · · · ·		Sampling Point:	009-1W		
Investigator(s):	Matt Spadoni & Sam Pa		Section, Township			vn of Ripley			
Landform (hillslope, terrace,			elief (concave, con		Concave		(%): 1-3		
Subregion (LRR or MLRA):							` '		
Soil Map Unit Name:		Udifluvents complex			NWI classification		PFO		
Are climatic / hydrologic cond					, rww classification o, explain in Remarks		10		
• •	oil , or Hydrology	•	y disturbed?		rcumstances" prese	•	(No		
Are Vegetation , So			•		lain any answers in		<u> </u>		
					•	•			
SUMMARY OF FINDIN	iGS - Attach site ma			cations, transe	cts, important i	reatures, etc.			
Hydrophytic Vegetation Pr	esent? Yes	X No	Is the	Sampled Area					
Hydric Soil Present?	Yes	X No	within	a Wetland?	Yes X	No	_		
Wetland Hydrology Preser	nt? Yes	X No	If yes,	optional Wetland Si	te ID:	Wetland 9			
Damandar /Frankia altama									
Remarks: (Explain alterna	tive procedures here or in a	separate report.)							
HYDROLOGY									
	otoro								
Wetland Hydrology India		all theat amply			Casandani Indiaa	stava (mainimas uma af to	magninad)		
-	um of one required; check a		-l.l (DO)	-		ators (minimum of ty	wo required)		
Surface Water (A1)	,	X Water-Stained	` '			Cracks (B6)			
High Water Table (A2)	Aquatic Faun	` '		X Drainage Pa				
Saturation (A3)		Marl Deposits			Moss Trim L	, ,			
Water Marks (B1)		X Hydrogen Sul				Water Table (C2)			
Sediment Deposits (E	32)		zospheres on Living	g Roots (C3)	Crayfish Bur				
Drift Deposits (B3)			Reduced Iron (C4)			isible on Aerial Ima			
Algal Mat or Crust (B	4)		Reduction in Tilled	Soils (C6)					
Iron Deposits (B5)		Thin Muck Su		X Geomorphic Position (D2)					
Inundation Visible on	Aerial Imagery (B7)	Other (Explain	n in Remarks)		Shallow Aqu	uitard (D3)			
Sparsely Vegetated C	Concave Surface (B8)				Microtopogra	aphic Relief (D4)			
					X FAC-Neutral	l Test (D5)			
Field Observations:	.,								
Surface Water Present?	Yes No	X Depth (inche	-	_					
Water Table Present?	Yes No _	X Depth (inche	· ———	_					
Saturation Present?	Yes No _	X Depth (inche	es):	Wetland Hy	drology Present?	Yes X	No		
(includes capillary fringe)									
Describe Described Date (otroom gougo, monitoring	vall parial photos p	rovious inspection) if available:					
Describe Recorded Data (stream gauge, monitoring v	veii, aeriai priotos, p	revious inspection	s), ii avallable:					
Remarks:									
remarks.									

es? Status es FAC es FAC I Cover I Cover es FAC es FAC	FACU Total Number of Dominant FACW Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/I) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 0 x 3 = 0 FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
es? Status es FAC es FAC I Cover I Cover es FAC es FAC	That Are OBL, FACW, or FAC: 3 (A)
es? Status es FAC es FAC I Cover I Cover es FAC es FAC	That Are OBL, FACW, or FAC: 3 (A)
es? Status es FAC es FAC I Cover I Cover es FAC es FAC	Total Number of Dominant Species Across All Strata: 4 (B)
S FACES FACE	FACU Total Number of Dominant FACW Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/I) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 0 x 3 = 0 FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Cover Cover FACES FA	FACW Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/I) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 0 x 3 = 0 FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Cover Cover FAG FAG FAG FAG FAG FAG FAG FA	Percent of Dominant Species That Are OBL, FACW, or FAC:
I Cover	That Are OBL, FACW, or FAC:
I Cover	That Are OBL, FACW, or FAC:
Cover Cover Cover FAC FAC	Prevalence Index worksheet: Total % Cover of:
Cover Cover FAC FAC	Total % Cover of:
Cover FACES FACES FACES	Total % Cover of:
Cover FACES FACES FACES	OBL species
Cover	FACW species 95 x 2 = 190 FAC species 0 x 3 = 0 FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Cover	FAC species 0 x 3 = 0 FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Cover	FACU species 30 x 4 = 120 UPL species 0 x 5 = 0 Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Cover	UPL species
Cover	Column Totals: 125 (A) 310 (Prevalence Index = B/A = 2.48
I Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
I Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
es FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
es FAC	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
es FAC	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
es FAC	FACW 2 - Dominance Test is >50%
es FAC	FACW I —
	V 2 Provalence Index <3 (1)
) FA	X 3 - Prevalence Index ≤3.0¹ A Morphological Adaptations (Provide supporting
	FACW 4 - Morphological Adaptations (Provide supporting
	Problematic Hydrophytic Vegetation¹ (Explain)
	¹Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
	Definitions of Vegetation Strata
	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	breast height (DBH), regardless of height.
	Sapling/shrub - Woody plants less than 3 in. DBH and
Cover	greater than or equal to 3.28 ft (1 m) tall.
0010.	
	Herb - All herbaceous (non-woody) plants, regardless of
———	size, and woody plants less than 3.28 ft tall.
———	Woody vines - All woody vines greater than 3.28 ft in
	height.
Cover	Hydrophytic
	Vegetation
	Present? Yes X No
ıl	l Cover

SOIL Sampling Point: _____009-1W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10YR 2/1	100					Clayey loam			
12-18	10YR 4/1	90	10YR 5/8	10	C	M	Clayey Ion	-		
				-						
				-						
					·					
								-		
								-		
					· ——					
	· ·									
					· 					
Typo: C=Co	ncentration, D=Depletion	n DM-Dodu	ood Matrix MS=Mac	kod Sand Cr	raine		21 000	tion: DI =D	ore Lining, M=	Matrix
Type. C-Co	nicentration, D-Depletion	II, KIVI-Keuu	ceu Mairix, M5-Mas	Keu Sanu Gi	ali i5.		Luca	uon. PL-P	ore Liming, IVI-	walix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, N	/ILRA 149B)
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LI	•
	istic (A3)		Loamy Mucky N			-				(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		(, -,				7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	۵11)	Redox Dark Su	,					ce (S9) (LRR	
	ark Surface (A12)	311)	Depleted Dark S							(LRR K, L, R)
	Mucky Mineral (S1)							•	, ,	
	, ,		Redox Depress	ions (Fo)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	
	d Matrix (S6)								ark Surface (TF	12)
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Other	(Explain in	n Remarks)	
3Indiantors of	hydrophytic vegetation	and wattend	hydrology must be n	rocent unloc	a diaturbad	or problem	actic			
indicators of		and welland	mydrology must be p	mesent, unies	ss disturbed	or problem	ialic.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - 3	South Ripley	City/Co	ounty:	Chautauqua C	ounty	Sampling Date:	06/30/2020		
Applicant/Owner:					•	te: New York		010-1U		
Investigator(s):		MS, SPF		n, Township, Rar			wn of Ripley			
Landform (hillslope, terra		•		ncave, convex, n		None	. ,	(%): 0		
Subregion (LRR or MLR/				2.18314806	Long:	-79.669327				
Soil Map Unit Name:			ents-Udifluvents comple			NWI classification		1. 10.15.00		
Are climatic / hydrologic			•		(If no.	explain in Remark				
			significantly disturb			umstances" prese	•	(No		
			significantly disturb naturally problema			in any answers in		<u> </u>		
					· ·	•				
SUMMARY OF FIN	DINGS - Attac	in site map sn	lowing sampling	point locatio	ons, transec	is, important	reatures, etc.			
Hydrophytic Vegetation	n Present?	Yes		Is the Samp	led Area					
Hydric Soil Present?		Yes	No <u>X</u>	within a We	tland?	Yes	NoX	_		
Wetland Hydrology Pre	esent?	Yes	NoX	If yes, option	nal Wetland Site	ID:				
										
Remarks: (Explain alte	ernative procedure	s here or in a sepa	arate report.)							
HYDROLOGY										
Wetland Hydrology II										
Primary Indicators (min		uired; check all tha	11.77	(50)			ators (minimum of ty	wo requirea)		
Surface Water (A	•		Water-Stained Leaves	` '			I Cracks (B6)			
High Water Table	e (A2)		Aquatic Fauna (B13)				atterns (B10)			
Saturation (A3)			Marl Deposits (B15)			Moss Trim I	, ,			
Water Marks (B1))		Hydrogen Sulfide Odd	or (C1)		Dry-Season	Water Table (C2)			
Sediment Deposi	its (B2)		Oxidized Rhizosphere	es on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)			
Drift Deposits (B3	3)		Presence of Reduced	l Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)		
Algal Mat or Crus	st (B4)		Recent Iron Reduction	n in Tilled Soils (oils (C6) Stunted or Stressed Plants (D1)					
	Iron Deposits (B5) Thin Muck Surface (C7)					Geomorphic Position (D2)				
I Iron Deposits (B5))									
I — ' '	•	v (B7)	·	•						
Inundation Visible	e on Aerial Imager		Other (Explain in Ren	•		Shallow Aqu	uitard (D3)			
Inundation Visible	•		·	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)			
Inundation Visible	e on Aerial Imager		·	•		Shallow Aqu	uitard (D3) aphic Relief (D4)			
Inundation Visible	e on Aerial Imager		·	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)			
Inundation Visible Sparsely Vegetate	e on Aerial Imager ted Concave Surfa	ace (B8)	Other (Explain in Ren	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)			
Inundation Visible Sparsely Vegetate Field Observations:	e on Aerial Imager ted Concave Surfa		Other (Explain in Ren	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)			
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen	e on Aerial Imager ted Concave Surfa	No X	Other (Explain in Ren	•	Wetland Hydr	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present?	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes	No X No X	Other (Explain in Ren Depth (inches): Depth (inches):	•	Wetland Hydr	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4)	NoX		
Field Observations: Surface Water Present? Saturation Present?	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes	No X No X	Other (Explain in Ren Depth (inches): Depth (inches):	•	Wetland Hydr	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Field Observations: Surface Water Present? Saturation Present?	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Field Observations: Surface Water Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX		
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa at? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X		

/EGETATION - Use scientific names of plants.				Sampling Point: 010-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That file OBE, 1710VV, 01 1710.
1. Tsuga canadensis / Eastern hemlock	60	Yes	FACU	Total Number of Dominant
Fagus grandifolia / American beech	15	Yes	FACU	
	10		FACO	Species Across All Strata: 6 (B)
3.	· 			
4		_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.7 (A/E
6				
7				Prevalence Index worksheet:
	75	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Fagus grandifolia / American beech	5	Yes	FACU	FACW species 0 x 2 = 0
2.		-, -		FAC species 60 x 3 = 180
2				FACU species 143 x 4 = 572
4			·	UPL species 0 x 5 = 0
-				Column Totals: 203 (A) 752 (E
5				Prevalence Index = B/A = 3.7
6				Trevalence index = B/A = 3.7
7				Hydrophytic Vegetation Indicators:
	5	_ = Total Cove	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				
1. Podophyllum / Mayapple	25	Yes		2 - Dominance Test is >50%
Fagus grandifolia / American beech	5	No	FAC	3 - Prevalence Index ≤3.0¹
3. <i>Dryopteris intermedia /</i> Evergreen wood fern	60	Yes	FACU	4 - Morphological Adaptations (Provide supporting
Maianthemum racemosum / Feathery false lily of the valley	3	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
			TACO	
5		_	·	¹Indicators of hydric soil and wetland hydrology must
6			· ·	be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				
16.	93	= Total Cove	ar.	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)		_ = 10tal 000	J I	
<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2			· 	Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			
Tromano. (Explain alternative procedures note of in a separate	тороги,			

SOIL Sampling Point: 010-1U

Profile Desc Depth	ription: (Describe to the Matrix	ne aepth ne		he indicator x Features	or confirm t	ne absen	ce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-1	10 yr 3/3	100					Loam	
1-6	10 yr 3/6	100					Loam	
¹Type: C=Co	ncentration, D=Depletion	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for F	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface (St	3) (LRR R,N	ILRA 1491	3) 2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coast Prai	rie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Loamy Mucky I	Mineral (F1)	(LRR K, L)		5 cm Muck	y Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark Surfa	ce (S7) (LRR K, L)
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue I	Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-Manga	anese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
Sandy G	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 Shallo	ow Dark Surface (TF12)
	rface (S7) (LRR R, ML	RA 149B)						lain in Remarks)
								
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed o	or problem	atic.	
	ayer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil Preser	nt? Yes No X
Remarks:	5							
	Root refusal							

Project/Site:	19020 - S	South Ripley	City/Co	unty: (Chautauqua Cou	nty	Sampling Date:	07/01/2020
Applicant/Owner:			ectGen LLC	· —	•		Sampling Point:	011-1U
Investigator(s):		IS, SPF		, Township, Range			vn of Ripley	
Landform (hillslope, terra				cave, convex, non		Convex		(%): 2
Subregion (LRR or MLR				2.18299947	Long:	-79.6653933		` '
Soil Map Unit Name:			Erie silt loam			WI classification		
Are climatic / hydrologic		site typical for this t		X No	(If no, exp			
, ,			significantly disturb		"Normal Circum		•	(No
			naturally problemat		needed, explain a			<u> </u>
SUMMARY OF FIN						-	•	
		-			·	Important	icatures, etc.	
Hydrophytic Vegetatio	on Present?	Yes	-	Is the Sample				
Hydric Soil Present?		Yes		within a Wetla			NoX	_
Wetland Hydrology Pr	resent?	Yes	No X	If yes, optional	Wetland Site ID:			
Remarks: (Explain alte	ernative procedure	s here or in a sepa	rate report)	•				
Tromano. (Explain ala	ornativo proceduro	o noro or in a copa	acto roport.)					
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one requ	ired; check all that	apply)		Se	condary Indica	ators (minimum of to	wo required)
Surface Water (A	A1)		Water-Stained Leaves	(B9)		Surface Soil	Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odo	or (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	its (B2)		Oxidized Rhizosphere	s on Living Roots	(C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Reduced	Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reduction	in Tilled Soils (C6	<u> </u>		Stressed Plants (D1	
Iron Deposits (B5	5)		Thin Muck Surface (C	7)		Geomorphic	Position (D2)	
						Shallow Aqu		
Inundation Visible	e on Aerial Imagery	/ (B7)	Other (Explain in Rem	arks)		Shallow Aqu	illalu (D3)	
			Other (Explain in Rem	iarks)			aphic Relief (D4)	
	e on Aerial Imagery ted Concave Surfac		Other (Explain in Rem	arks)	 		aphic Relief (D4)	
Sparsely Vegetat			Other (Explain in Rem	iaiks)	 	Microtopogr	aphic Relief (D4)	
Sparsely Vegetat	ted Concave Surfac	ce (B8)		larks)	<u>-</u>	Microtopogr	aphic Relief (D4)	
Sparsely Vegetat Field Observations: Surface Water Presen	ted Concave Surface	ce (B8)	Depth (inches):	laiks)	_ _ _	Microtopogr	aphic Relief (D4)	
Field Observations: Surface Water Present?	nt? Yes _	No X No X	Depth (inches):		_ _ 	Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	
Field Observations: Surface Water Present Water Table Present? Saturation Present?	nt? Yes _ Yes _ Yes _	ce (B8)	Depth (inches):			Microtopogr FAC-Neutra	aphic Relief (D4)	No <u>X</u>
Field Observations: Surface Water Present?	nt? Yes _ Yes _ Yes _	No X No X	Depth (inches):		Vetland Hydrolo	Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Presen Water Table Present? Saturation Present? (includes capillary fring	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	v		Microtopogr FAC-Neutra	aphic Relief (D4) I Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point:011-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Acer saccharum / Sugar maple	75	Yes	FACU	Total Number of Dominant
2.		100	17.00	Species Across All Strata: 3 (B)
•				Species Across Air Strata.
	-			Description of Description of Control
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6			- 	Prevalence Index worksheet:
7				
	75	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
Lonicera morrowii / Morrow's honeysuckle	15	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.				FACU species 160 x 4 = 640
4				UPL species 0 x 5 = 0
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 3.94
7.				
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_	-	1 - Rapid Test for Hydrophytic Vegetation
1. Solidago canadensis / Canada goldenrod	60	Yes	FACU	2 - Dominance Test is >50%
Rubus allegheniensis / Allegheny blackberry	10	No	FACU	3 - Prevalence Index ≤3.0¹
Solidago rugosa / Wrinkle-leaf goldenrod	10	No No	FAC	4 - Morphological Adaptations (Provide supporting
			FAC	Problematic Hydrophytic Vegetation¹ (Explain)
4	-	- -	 	
5				¹Indicators of hydric soil and wetland hydrology must
6		- -		be present, unless disturbed or problematic.
7			- 	
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	80	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				- 3
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: ____011-1U

	cription: (Describe to the	he depth nee		he indicator x Features	or confirm th	ne absen	ce of indicators.)				
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x realures %	Type ¹	Loc²	Texture	Rema	arke		
0-8			Color (moist)	70	туре	LOC-		Rema	iiks		
0-8	10YR 4/4	100					Sandy				
	_										
	<u> </u>	· ·									
						_					
-		· 									
	. .	· -	_								
	-										
		·									
¹Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Location:	PL=Pore Lining,	M=Matrix.		
Hydric Soil I	Indicators:						Indicators for	Problematic Hy	dric Soils³:		
Histosol	I (A1)		Polyvalue Belov	w Surface (S	B) (LRR R,MI	LRA 149	B) 2 cm Mucl	(A10) (LRR K,	L, MLRA 149B)		
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA 1	49B)	Coast Pra	rie Redox (A16)	(LRR K, L, R)		
	istic (A3)		Loamy Mucky N			•			S3) (LRR K, L, R)		
	en Sulfide (A4)		Loamy Gleyed		, , , -,		_	ce (S7) (LRR K			
	d Layers (A5)		Depleted Matrix					Below Surface (· ·		
	, , ,	۸11)									
	d Below Dark Surface (A	AII)	Redox Dark Su					Surface (S9) (L			
	ark Surface (A12)		Depleted Dark						12) (LRR K, L, R)		
	Mucky Mineral (S1)		Redox Depress	ions (F8)					(F19) (MLRA 149B)		
	Gleyed Matrix (S4)								A 144A, 145, 149B)		
Sandy F	Redox (S5)						Red Parer	t Material (F21)			
Stripped	d Matrix (S6)						Very Shall	ow Dark Surface	(TF12)		
Dark Su	ırface (S7) (LRR R, ML	RA 149B)					Other (Explain in Remarks)				
31 m dia atawa at	f budsashutia vasatatian		budgalagu gayat ba ga				antin				
	f hydrophytic vegetation	and welland	mydrology must be p	mesent, unles	s disturbed of	Problem	lauc.				
	Layer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Prese	nt? Yes	No <u>X</u>		
						I.					
Remarks:	Root refusal										
	Root reiusai										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/01/2020
Applicant/Owner:	. ,	ConnectGen LLC	· · · · ·	St	ate: New York		011-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Township,			vn of Ripley	-
Landform (hillslope, terrace	•	_			Concave		(%): 0-3
Subregion (LRR or MLRA):			42.18311377				`
Soil Map Unit Name:					NWI classification		·· <u> </u>
Are climatic / hydrologic cor				lo (If no	explain in Remark	-	
, ,	Soil, or Hydrology	•	y disturbed?		cumstances" prese	•	(No
	Soil, or Hydrology				ain any answers in		
SUMMARY OF FINDI					•	•	
					is, important	leatures, etc.	
Hydrophytic Vegetation P		X No		ampled Area			
Hydric Soil Present?	Yes	X No		Wetland?	Yes X		=
Wetland Hydrology Prese	nt? Yes	X No	_ If yes, op	tional Wetland Site	e ID:	Wetland 11	
	ative procedures here or in h field, very compact clayey		e a drainage downhil	ı			
HYDROLOGY							
Wetland Hydrology Indi	rators:						
	um of one required; check	all that apply)			Socondary Indias	ators (minimum of tv	vo roquirod)
X Surface Water (A1)	um or one required, check	X Water-Staine	d Loaves (PO)		X Surface Soil	•	wo required)
X High Water Table (A.	2)	Aquatic Faun	` '		X Drainage Pa	` ,	
X Saturation (A3)	-)	Marl Deposits			Moss Trim L		
Water Marks (B1)			lfide Odor (C1)			Water Table (C2)	
Sediment Deposits (R2)		zospheres on Living F	Poots (C3)	Crayfish Bur		
Drift Deposits (B3)	D2)	X Presence of F	•	(UU)		isible on Aerial Ima	gony (CO)
	24)		` '	ilo (CG)			o , , ,
Algal Mat or Crust (E	9 4)		Reduction in Tilled So	iis (CO)		Stressed Plants (D1))
Iron Deposits (B5)	Aprial Imagany (P7)	Thin Muck Su			X Geomorphic		
Inundation Visible or		Other (Explai	n in Remarks)		Shallow Aqu		
Sparsely vegetated	Concave Surface (B8)				X FAC-Neutral	aphic Relief (D4)	
					A FAC-Neutral	Test (D3)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 3				
Water Table Present?	Yes X No	Depth (inch	es): 4				
Saturation Present?	Yes X No	Depth (inch	es): 0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)			,	.			
. , , , ,							
Describe Recorded Data	(stream gauge, monitoring	well, aerial photos, p	revious inspections),	if available:			
Domarka							
Remarks:							

			Dominance Test worksheet:
			Number of Dominant Species
Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
%Cover	Species?	Status	Illatale ODL, FACTY, OF FAC.
70COVEI	Species:	Status	Total Number of Dominant
		- ——	
			Species Across All Strata: 3 (B)
_			
			Percent of Dominant Species
			That Are OBL, FACW, or FAC:(A/B)
			The state of the second st
			Prevalence Index worksheet:
0	_ = Total Cov	er	Total % Cover of: Multiply by:
	_		OBL species x 1 = 35
			FACW species 0 x 2 = 0
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 35 (A) 35 (B)
			Prevalence Index = B/A = 1.0
			1 Totalonoo maax
			Hydrophytic Vegetation Indicators:
0	_ = Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
10	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
10	Yes	OBL	
10	Yes	OBL	4 - Morphological Adaptations (Provide supporting
5	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
		- ——	be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
	-		Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
		- —	
			Woody vines - All woody vines greater than 3.28 ft in
			height.
		- ——	
U	_ = Total Cove	er	Hydrophytic
			Vegetation
			Present? Yes No
	0 10 10 5	0 = Total Cove 10 Yes 10 Yes 10 Yes 5 No 35 = Total Cove	0 = Total Cover 0 = Total Cover 10 Yes OBL 10 Yes OBL 5 No OBL 35 = Total Cover

SOIL Sampling Point: 011-1W

Depth	Matrix		Redox	x Features			e of indicators			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 6/1	80	10YR 6/8	20	С	PL,M	Clay			
,										
Гуре: C=Con	centration, D=Depletion	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gra	ins.		²Loca	tion: PL=Pc	ore Lining, M=Matr	ix.
lydric Soil In	udicatore:						Indicators	for Proble	matic Hydric Soi	le3.
			Dolynyakua Balay	v Curfoco (CC	\	MI DA 440E			-	
Histosol (•		Polyvalue Belov						(LRR K, L, MLR	-
	ipedon (A2)		Thin Dark Surfa						dox (A16) (LRR I	
Black His			Loamy Mucky N		LKK K, L)				t or Peat (S3) (LR	K K, L, K)
	Sulfide (A4)		Loamy Gleyed I					•	7) (LRR K, L)	D ())
	Layers (A5)	44)	X Depleted Matrix						Surface (S8) (LR	
	Below Dark Surface (A	(11)	Redox Dark Sui	` ,					e (S9) (LRR K, L	
_	rk Surface (A12)		Depleted Dark S					-	Masses (F12) (L	
	ucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19) (N	
	eyed Matrix (S4)								A6) (MLRA 144A	145, 1496)
Sandy Re								Parent Mate		
	Matrix (S6)	DA 440D\							rk Surface (TF12)	
Dark Suri	face (S7) (LRR R, ML	KA 149B)					Other	(Explain in	Remarks)	
Indicators of I	hydrophytic vegetation	and wetland	l hydrology must be n	recent unles	e disturbed	or problems	atic			
	Tydrophytic vegetation	and welland	- Trydrology mast be p		- diotal bec	Tor problem				
	ayer (if observed):									
Restrictive La	Compact So									
Restrictive La	Compact So	ils 3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So						Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3	_				Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No
Restrictive La Type: Depth (inc	Compact So	3					Hydric Soil Pi	resent?	Yes X	No

Project/Site:	19020	- South Ripley	Cit	y/County:	Chautaugua	County	Sampling Date:	07/01/2020
Applicant/Owner:		Con	nectGen LLC	, , <u> </u>		tate: New York	-	012-1U
Investigator(s):		MS, SPF	Se	ction, Township,	Range:	Tov	wn of Ripley	
Landform (hillslope, terr	ace, etc):	Hillslope	Local relief	(concave, conve	ex, none):	Convex	Slope	(%): 5
Subregion (LRR or MLR			Lat:	42.18228823	Long:	-79.6671989	95 Datun	n: NAD 83
Soil Map Unit Name:			Busti silt loam			NWI classification	on:	
Are climatic / hydrologic	conditions on th	ne site typical for this	s time of year? Ye	s X	No (If no	_ , explain in Remark	ss.)	
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed?	Are "Normal Ci	rcumstances" prese	ent? Yes >	K No
Are Vegetation	, Soil	, or Hydrology	naturally probl	ematic?	(If needed, exp	lain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Att	ach site map s	howing sampli	ng point loc	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X		ampled Area	•		
Hydric Soil Present?		Yes	No X		Wetland?	Yes	No X	
Wetland Hydrology P	resent?	Yes	No X		ptional Wetland Sit			_
				,,	F			
Remarks: (Explain alt	ternative procedu	ures here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicatore:							
Primary Indicators (m		aquired: check all th	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A		equired, effect all til	Water-Stained Le	aves (R9)			l Cracks (B6)	wo required)
High Water Table	,		Aquatic Fauna (B	,			atterns (B10)	
Saturation (A3)	C (AZ)		Marl Deposits (B	•		Moss Trim L		
Water Marks (B1	1)		Hydrogen Sulfide	-			Water Table (C2)	
Sediment Depos	,		Oxidized Rhizosp		Roots (C3)	Crayfish Bu		
Drift Deposits (B			Presence of Red	-	110013 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•		Recent Iron Redu		nils (C6)		Stressed Plants (D1	
Iron Deposits (B			Thin Muck Surface		0.10 (00)		Position (D2)	• 7
Inundation Visible	•	erv (B7)	Other (Explain in	` '		Shallow Aqu		
Sparsely Vegeta	-		_				aphic Relief (D4)	
		(==)				FAC-Neutra		
						<u> </u>		
Field Observations:								
Surface Water Preser		s No _X		-	_			
Water Table Present?		s No _X	_ ' ' '		_			
Saturation Present?	Yes	s NoX	Depth (inches):		_ Wetland Hyd	drology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	ata (stream dau	ae monitorina well	aerial photos, previ	ous inspections	if available:			
Describe recorded b	ata (Stream gau	ge, monitoring wen,	acriai priotos, previ	ous mapeemons,	, ii avallabic.			
Remarks:								
i .								

VEGETATION - Use scientific names of plants.				Sampling Point: 012-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',')
1. Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Total Number of Dominant
Ostrya virginiana / Eastern hop-hornbeam	30	Yes	FACU	Species Across All Strata: 7 (B)
3. <i>Crataegus ×haemacarpa /</i> Hawthorn	15	Yes	_	(=/
4.				Percent of Dominant Species
5.		-		That Are OBL, FACW, or FAC: 14.3 (A/B)
6		-		
7.	_			Prevalence Index worksheet:
· · · · ·	75	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_	-	OBL species 0 x 1 = 0
1. Crataegus ×haemacarpa / Hawthorn	10	Yes		FACW species 0 x 2 = 0
				FAC species 30 x 3 = 90
2.			<u> </u>	FACU species 60 x 4 = 240
3. 4.			<u> </u>	UPL species 5 x 5 = 25
-				Column Totals: 95 (A) 355 (B)
				Prevalence Index = B/A = 3.74
-				
7	10	= Total Cov		Hydrophytic Vegetation Indicators:
Harb Stratum (Diet size: 5	10	_ = 10tal C0V	CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 1. Dryopteris intermedia / Evergreen wood fern	20	Voo	EAC	2 - Dominance Test is >50%
	<u>30</u> 15	Yes Yes	FAC	3 - Prevalence Index ≤3.0¹
Polygonum virginianum / Jumpseed Coulonbullum the listenidae / Physical polygon			<u> </u>	4 - Morphological Adaptations (Provide supporting
3. Caulophyllum thalictroides / Blue cohosh	15	Yes	LIDI	Problematic Hydrophytic Vegetation¹ (Explain)
4. Fragaria vesca / Wild strawberry, Wood strawberry	5	No	UPL	
5				¹Indicators of hydric soil and wetland hydrology must
6	_	-		be present, unless disturbed or problematic.
7		_		
8	_	-		Definitions of Vegetation Strata
9				
10.	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	65	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1			<u> </u>	size, and woody plants less than 3.28 ft tall.
2		_		Woody vines - All woody vines greater than 3.28 ft in
3	_			height.
4	_	_		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Demontra (Evalois alternative presedures have as in a consent				
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 012-1U

(inches)	Matrix		Redo:	k Features			e of indicators.)			
	Color (moist)	%	Color (moist)	%	Type ¹ L	OC ²	Texture	Rer	marks	
0-8	10 yr 2/1	100					Loam			
8-24	10 yr 3/2	100					Silt loam			
					·					
					·					
Type: C=Cor	ncentration, D=Depletion	, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Location	n: PL=Pore Lining	g, M=Matrix.	
lydric Soil I	ndicators:						Indicators fo	r Problematic H	lydric Soils³:	
Histosol			Polyvalue Belov	v Surface (St) (IRRRMIR	Δ 149R			(, L, MLRA 149B)	
	pipedon (A2)		Thin Dark Surfa						6) (LRR K, L, R)	,
						,D)				D)
Black Hi			Loamy Mucky N		LINK IN, L)				t (S3) (LRR K, L,	IN)
	n Sulfide (A4)		Loamy Gleyed					face (S7) (LRR	(K, L) (S8) (LRR K, L)	
	Layers (A5)	44)	Depleted Matrix						. , ,	
	Below Dark Surface (A	11)	Redox Dark Su					k Surface (S9)		
	rk Surface (A12)		Depleted Dark					-	(F12) (LRR K, L	
	lucky Mineral (S1)		Redox Depress	ions (F8)					ls (F19) (MLRA 1 4	
	leyed Matrix (S4)								_RA 144A, 145, 14	19B)
	edox (S5)							ent Material (F21		
	Matrix (S6)							allow Dark Surfac		
Dark Su	face (S7) (LRR R, MLF	RA 149B)					Other (E	xplain in Remark	(S)	
Indicators of	hydrophytic vegetation a	and wetland	hydrology must be p	resent. unles	s disturbed or p	roblema	tic.			
			,							
	ayer (if observed):									
Type:	-l \.						Undete Oatt Dece	10	NI-	V
Depth (in	cnes):						Hydric Soil Pres	ent? Yes_	No	<u>X</u>
						,				
Remarks:										
Remarks:										
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Project/Site:	19020 - South Ripley	Ci	ty/County:	Chautauqua C	County	Sampling Date:	07/01/2020
Applicant/Owner:	1 7	ConnectGen LLC	, , 	•	ite: New York		012-1W
Investigator(s):	Matt Spadoni & Sam Pa		ection, Township, Ra			wn of Ripley	
Landform (hillslope, terrace, e	•		f (concave, convex, r	-	Concave		(%): 2-5
Subregion (LRR or MLRA):			•	Long:	-79.667193		` '
Soil Map Unit Name:			12.10202010		NWI classification		10.00
Are climatic / hydrologic cond			e Y No	(If no	explain in Remark		
, ,	il, or Hydrology	•		` '	umstances" prese	,	. No
	il , or Hydrology				in any answers in		
					•		
SUMMARY OF FINDIN	65 - Attach Site ma		ng point location	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation Pre	esent? Yes	X No	Is the Sam	pled Area			
Hydric Soil Present?	Yes	X No	within a Wo	etland?	Yes X	No	_
Wetland Hydrology Presen	t? Yes	X No	If yes, optio	nal Wetland Site	ID:	Wetland 12	
Demontos (Evaleia alterneti							
Remarks: (Explain alternati	ve procedures here or in a	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indica	ators:						
Primary Indicators (minimu		all that annly)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1)	or one required, encour	Water-Stained Le	eaves (B9)			I Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (E	` '		X Drainage Pa		
X Saturation (A3)		Marl Deposits (B			Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide	•			Water Table (C2)	
Sediment Deposits (B	2)		oheres on Living Roo	nts (C3)	Crayfish Bu		
Drift Deposits (B3)	- /	Presence of Red	•	313 (00)		/isible on Aerial Ima	nery (C9)
Algal Mat or Crust (B4)		uction in Tilled Soils	(C6)		Stressed Plants (D1	
Iron Deposits (B5))	Thin Muck Surfa		(00)	X Geomorphic	,)
Inundation Visible on A	Aerial Imageny (R7)	Other (Explain in			X Shallow Aqu		
Sparsely Vegetated C		Other (Explain in	Remarks)			aphic Relief (D4)	
Sparsely vegetated C	Jilcave Surface (Bo)				X FAC-Neutra		
					A FAC-Neulla	r rest (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inches):					
Water Table Present?	Yes No	X Depth (inches):					
		Depth (inches):		Wetland Hydr	ology Present?	Yes X	No
Saturation Present?	res a ivo	23pt (<u>//</u>	
Saturation Present?	Yes X No						
Saturation Present? (includes capillary fringe)	res X NO						
		well, aerial photos, prev	ious inspections), if a	available:			
(includes capillary fringe)		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe)		well, aerial photos, prev	ious inspections), if a	available:			
(includes capillary fringe)		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if a	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			
(includes capillary fringe) Describe Recorded Data (s		well, aerial photos, prev	ious inspections), if	available:			

VEGETATION - Use scientific names of plants.				Sampling Point: 012-1W
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',')
1. Betula alleghaniensis / Yellow birch	35	Yes	FAC	Total Number of Dominant
2. Acer saccharum / Sugar maple	5	No	FACU	Species Across All Strata: 4 (B)
3. Tsuga canadensis / Eastern hemlock	5	No	FACU	(-/
4.		_	·	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
6.				
7.		_	-	Prevalence Index worksheet:
	45	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 20 x 1 = 20
1.				FACW species 65 x 2 = 130
2.			·	FAC species 35 x 3 = 105
3.			·	FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5.				Column Totals: 130 (A) 295 (B)
6.		_		Prevalence Index = B/A = 2.27
7.		_		
	0	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	45	Yes	FACW	X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	20	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Myosotis scorpioides / Forget me not, Water forget-me-not	20	Yes	OBL	4 - Morphological Adaptations (Provide supporting
	. ———		OBL	Problematic Hydrophytic Vegetation¹ (Explain)
			·	
6			·	¹ Indicators of hydric soil and wetland hydrology must
			· ——	be present, unless disturbed or problematic.
7			·	
8.		- -		Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		T-4-1 O		Sapling/shrub - Woody plants less than 3 in. DBH and
Manda Vine Obstance (Diet siese 20	85	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.	-		- ———	Woody vines - All woody vines greater than 3.28 ft in
3	· 			neight.
4				Hardwood of a
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Explain alternative procedures here or in a separate	report)			
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 012-1W

Depth	ription: (Describe to th Matrix			x Features	- 			,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u> </u>
0-4	10YR 2/1	100					Mucky clay			
4-8	10YR 3/2	80	10YR 5/8	20	C	M	Clay			
	·									
								-		
	·									
								-		
	· -									
	·							-		
	· <u></u>									
T 00							21			
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=	Matrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	c Soils³:
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L,	MLRA 149B)
	pipedon (A2)	•	Thin Dark Surfa						edox (A16) (L	· · · · · · · · · · · · · · · · · · ·
	istic (A3)	•	Loamy Mucky N			,				(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		(=:::::::::::::::::::::::::::::::::::::				7) (LRR K, L	
	d Layers (A5)		X Depleted Matrix					-	V Surface (S8)	-
	d Below Dark Surface (A	. 11)	Redox Dark Su						ce (S9) (LRR	
		311)								
	ark Surface (A12)		Depleted Dark					-	-	(LRR K, L, R)
	Mucky Mineral (S1)	;	Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									144A, 145, 149B)
	Redox (S5)							Parent Mat		
	l Matrix (S6)								ark Surface (T	F12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain ii	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Restrictive L	_ayer (if observed):									
Type:	Bedrock									
Depth (in	iches):	8					Hydric Soil P	resent?	Yes X	No
Remarks:	Bedrock at 8									
	Dodi ook at o									

Project/Site:	19020 - 3	South Ripley	City/Co	ounty:	Chautauqua C	County	Sampling Date:	07/01/2020
Applicant/Owner:			nectGen LLC	,	•		Sampling Point:	013-1U
Investigator(s):		//S, SPF		n, Township, Ran	_		wn of Ripley	
Landform (hillslope, terra		•		icave, convex, no		Convex		(%): 5
Subregion (LRR or MLR		•		2.18228823	Long:	-79.667198		(/
Soil Map Unit Name:			Busti silt loam		20119	NWI classification		14/12/00
Are climatic / hydrologic				Y No	(If no. 4	explain in Remark		
, ,			significantly disturb		``	umstances" prese	,	(No
			naturally problemat			in any answers in		<u> </u>
					· ·	•	•	
SUMMARY OF FIN		in site map si		pomi iocano	ns, transect	is, important	reatures, etc.	
Hydrophytic Vegetatio	on Present?	Yes		Is the Samp	led Area			
Hydric Soil Present?		Yes	No X	within a Wet	land?	Yes	No X	_
Wetland Hydrology Pr	resent?	Yes	NoX	If yes, option	al Wetland Site	ID:		
Remarks: (Explain alto	ernative procedure	se here or in a sen:	arate report)					
itemarks. (Explain alt	ernative procedure	s nere or in a sept	arate report.)					
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one requ	uired; check all tha	t apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	\1)		Water-Stained Leaves	s (B9)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	_ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	sits (B2)		Oxidized Rhizosphere	s on Living Root	s (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	` '		Presence of Reduced	-	,		/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•		Recent Iron Reduction	` '	26)		Stressed Plants (D1	
Iron Deposits (B5			Thin Muck Surface (C	•	,		Position (D2)	,
				.,			o . ooo (22)	
I —	-	v (B7)	Other (Explain in Rem	narks)		Shallow Agi	uitard (D3)	
Inundation Visible	e on Aerial Imager		Other (Explain in Rem	narks)		Shallow Aqu		
Inundation Visible	-		Other (Explain in Rem	narks)		Microtopogr	raphic Relief (D4)	
Inundation Visible	e on Aerial Imager		Other (Explain in Rem	narks)			raphic Relief (D4)	
Inundation Visible	e on Aerial Imager		Other (Explain in Rem	narks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetat	e on Aerial Imager ted Concave Surfa			narks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations:	e on Aerial Imager ted Concave Surfa		Depth (inches):	narks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen	e on Aerial Imager ted Concave Surfa	NoX	Depth (inches):	narks)	Wetland Hydr	Microtopogr	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Present Water Table Present?	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _	No X No X	Depth (inches):	narks)	Wetland Hydr	Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary frin	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary frin Describe Recorded Da	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X

VEGETATION - Use scientific names of plants.				Sampling Point:013-1U	
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	·	
T 01 1 (DI 1)		Dominant		That Are OBL, FACW, or FAC: 1 (A)	
Tree Stratum (Plot size:)	%Cover	Species?	Status		
Ostrya virginiana / Eastern hop-hornbeam	30	Yes	FACU	Total Number of Dominant	
Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Species Across All Strata: 7 (B)	
3. Crataegus ×haemacarpa / Hawthorn	15	Yes			
4.				Percent of Dominant Species	
5.			- '	That Are OBL, FACW, or FAC: 14.3 (A/B)	
6.					
7				Prevalence Index worksheet:	
1.	75	= Total Cove		Total % Cover of: Multiply by:	
Capling/Chrub Ctratum (Diet eize: 15		_ = 10tai 0000	J 1	OBL species 0 $x = 0$	
Sapling/Shrub Stratum (Plot size: 15)	40	\/		FACW species 0 x 2 = 0	
1. Crataegus ×haemacarpa / Hawthorn	10	Yes		FAC species 30 x 3 = 90	
2				<u> </u>	
3				FACU species 60 x 4 = 240	
4		_		UPL species 5 x 5 = 25	
5				Column Totals: 95 (A) 355 (B)	
6.				Prevalence Index = B/A = 3.74	
7		_			_
1.	10	= Total Cove		Hydrophytic Vegetation Indicators:	
Harb Stratum (Plot aize: 5		_ = 10(a) COV	5 1	1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5			54.0	2 - Dominance Test is >50%	
Dryopteris intermedia / Evergreen wood fern	30	Yes	FAC	3 - Prevalence Index ≤3.0¹	
2. Polygonum virginianum / Jumpseed	15	Yes		4 - Morphological Adaptations (Provide supporting	
Caulophyllum thalictroides / Blue cohosh	15	Yes		Problematic Hydrophytic Vegetation¹ (Explain)	
4. Fragaria vesca / Wild strawberry, Wood strawberry	5	No	UPL	Problematic Hydrophytic Vegetation (Explain)	
5.			- '		
6.				¹ Indicators of hydric soil and wetland hydrology must	
				be present, unless disturbed or problematic.	
7.					_
8			·	Definitions of Vegetation Strata	
9.	-				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at	
11				breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH and	
	65	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of	
1.				size, and woody plants less than 3.28 ft tall.	
2.					
2			· 	Woody vines - All woody vines greater than 3.28 ft in	
3			·	height.	
4					_
	0	_ = Total Cove	er	Hydrophytic	
				Vegetation	
				Present? Yes No X	
					_
Remarks: (Explain alternative procedures here or in a separate	report.)				

SOIL Sampling Point: 013-1U

Profile Desc Depth	cription: (Describe to the Matrix	ne depth ne		he indicator x Features	or confirm th	ne absen	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	arks
0-	10 yr 2/1	100					Loam		
8-24	10 yr 3/2	100	-				Silt loam		
			-						
			-						
	- 								
	·								
¹Type: C=Co	 ncentration, D=Depletio	n, RM=Redu	 uced Matrix, MS=Mas	ked Sand Gr	 ains.		²Location	PL=Pore Lining,	M=Matrix.
		,	, , ,						
Hydric Soil I			Debaselus Delev	Curfosa (Ci	2) / DD D M	I DA 440		Problematic Hyd	
Histosol	• •		Polyvalue Belov	•				k (A10) (LRR K,	•
	pipedon (A2)		Thin Dark Surfa			149B)		nirie Redox (A16)	
_	istic (A3)		Loamy Mucky N		(LKK N, L)				S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed Depleted Matrix					ace (S7) (LRR K Below Surface (S	
	d Below Dark Surface (/	۸11)	Redox Dark Su					Surface (S9) (LI	
	ark Surface (A12)		Depleted Dark						F12) (LRR K, L, R
	Mucky Mineral (S1)		Redox Depress					•	(F19) (MLRA 149B
	Gleyed Matrix (S4)		Rodox Boprood	MONO (1 0)					A 144A, 145, 149B
	Redox (S5)							nt Material (F21)	, ,
	d Matrix (S6)							low Dark Surface	(TF12)
	urface (S7) (LRR R, ML	.RA 149B)						plain in Remarks)	
_								,	
³ Indicators of	f hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed o	r problem	natic.		
	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Prese	ent? Yes	No <u>X</u>
Remarks:									

Project/Site:	19020 - S	South Ripley		City/Cou	nty:	Chautauqua (County	Sampling Date:	07/01/2020
Applicant/Owner:			ConnectGen LLC	_ ,	, <u> </u>	'	ate: New York		013-1W
Investigator(s):		t Spadoni		Section,	Township, Ra	nge:	To	wn of Ripley	
Landform (hillslope, terrace		•	ep Local	-	ave, convex, r		Concave		e (%): 2-5
Subregion (LRR or MLRA)		R MLRA 13			18173716	Long:	-79.668232		` '
Soil Map Unit Name:			Busti silt loa				NWI classificati		
Are climatic / hydrologic co	nditions on the s	site typical for			X No	(If no.	explain in Remar		
Are Vegetation,		,,	,				cumstances" pres	•	X No
			naturally				ain any answers ir		
SUMMARY OF FIND	· · · · · · · · · · · · · · · · · · ·		·			•	•	·	
						·	rio, important	10414100, 0101	
Hydrophytic Vegetation I Hydric Soil Present?	Present?		X No		Is the Sam	-	V V	Na	
,	- m+O			_	within a Wo		Yes X		_
Wetland Hydrology Pres	ent?	Yes	X No		ii yes, opilo	nal Wetland Site	e ID:	Wetland 13	
Remarks: (Explain alterr	native procedures	s here or in a	a separate report.)						
HYDROLOGY									
Wetland Hydrology Ind	licators:								
Primary Indicators (minir		iired: check a	all that apply)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A1)	-	inou, oncon c	X Water-Stain	ed Leaves i	(B9)			il Cracks (B6)	wo roquirou)
High Water Table (A			Aquatic Fau		(50)		X Drainage P		
X Saturation (A3)	/		Marl Deposi	, ,				Lines (B16)	
Water Marks (B1)			X Hydrogen S		(C1)			n Water Table (C2)	
Sediment Deposits	(B2)				on Living Roo	ots (C3)	Crayfish Bu	` ,	
Drift Deposits (B3)	,		Presence of	•	-	,		Visible on Aerial Im	agery (C9)
Algal Mat or Crust ((B4)		Recent Iron	Reduction	in Tilled Soils	(C6)		Stressed Plants (D	
Iron Deposits (B5)			Thin Muck S			,		c Position (D2)	•
Inundation Visible of	on Aerial Imagery	y (B7)	Other (Expla		•		Shallow Ag		
Sparsely Vegetated	d Concave Surface	ce (B8)					X Microtopog	raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
F: 1101 (:									
Field Observations:	Vaa	Na	V Donth (in a	\-					
Surface Water Present?	_		X Depth (incl		10				
Water Table Present?	Yes _	X No _	Depth (incl	· —	18 12	Wetland Hud	rolomy Drocont?	Voc. V	No
Saturation Present?	Yes _	X No	Depth (incl	les)	12	welland nyu	rology Present?	Yes X	No
(includes capillary fringe)								
Describe Recorded Data	a (stream gauge,	, monitoring v	vell, aerial photos,	previous in	spections), if	available:			
			·						
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 013-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Betula alleghaniensis / Yellow birch	30	Yes	FAC	Total Number of Dominant
2.		_		Species Across All Strata: 5 (B)
3.				(=)
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				That Aic OBE, I AOW, OI I AO. (AID)
				Prevalence Index worksheet:
7	30	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ = 10(a) COV	Ci	OBL species 25 x 1 = 25
	20	Voo	FACW	FACW species 65 x 2 = 130
Fraxinus pennsylvanica / Green ash		Yes	FACW	FAC species 30 x 3 = 90
2.			- -	FACU species 0 x4 = 0
3.				UPL species 0 x 5 = 0
4		-		
5				
6		_		Prevalence Index = B/A = 2.04
7				Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
1. Myosotis scorpioides / Forget me not, Water forget-me-not	25	Yes	OBL	
2. Impatiens capensis / Spotted jewelweed	25	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Dryopteris carthusiana / Spinulose wood fern	20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
			<u> </u>	D. C. W C. O
				Definitions of Vegetation Strata
10.			<u> </u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			_ (breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	70	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4		_	<u> </u>	
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 013-1W

/ I .	Matrix			Features	-		- .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 2/1	100					Clay			
	·									
				<u> </u>						
ype: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Locatio	n: PL=Pore	Lining, M=Mat	rix.
dric Soil Ir	ndicators:						Indicators fo	or Problem	atic Hydric So	ils³:
Histosol			Polyvalue Belov	v Surface (S8	3) (LRR R .	MLRA 149B			LRR K, L, MLF	
_	ipedon (A2)		Thin Dark Surfa					, , ,	x (A16) (LRR	•
Black His			Loamy Mucky N			,			r Peat (S3) (LI	
	n Sulfide (A4)		Loamy Gleyed I						(LRR K, L)	
	Layers (A5)		Depleted Matrix						urface (S8) (LI	SBK I)
	Below Dark Surface (A	111)	Redox Dark Sui						(S9) (LRR K, I	
_		(11)								-
_	rk Surface (A12)		Depleted Dark S					-	asses (F12) (I	
_	ucky Mineral (S1)		Redox Depress	ions (F8)					in Soils (F19) (I	
	leyed Matrix (S4)) (MLRA 144 <i>A</i>	i, 145, 149B)
	edox (S5)							rent Materia		
	Matrix (S6)								Surface (TF12)	
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other (E	Explain in R	emarks)	
ndicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	s disturbed	or problems	ıtic			
		and wetteria			o diotarbea	or probleme				
_	ayer (if observed):									
Type:									., .,	
Depth (inc	ches):		<u></u>				Hydric Soil Pres	sent?	Yes X	No
emarks:										
emarks:										
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Project/Site:	19020 - 3	South Ripley	City/Co	ounty: (Chautauqua Cou	ntv	Sampling Date:	07/01/2020
Applicant/Owner:			nectGen LLC	· —	•		Sampling Point:	014-1U
Investigator(s):		MS. SPF		n, Township, Range			wn of Ripley	
Landform (hillslope, terra		-, -		ncave, convex, non		Convex		(%): 5
Subregion (LRR or MLR		•		2.18228823	Long:	-79.667198		()
Soil Map Unit Name:			Busti silt loam	2.10220020		IWI classification		1. 14/15/00
Are climatic / hydrologic				Y No	(If no, exp			
, ,		**	significantly disturb		"Normal Circum		,	(No
			naturally problema		needed, explain a			<u> </u>
·					•	-	•	
SUMMARY OF FIN		on site map si		point location	s, transects,	ппропапі	reatures, etc.	
Hydrophytic Vegetatio	on Present?	Yes		Is the Sample	d Area			
Hydric Soil Present?		Yes	NoX	within a Wetla	and?	Yes	No X	_
Wetland Hydrology Pr	resent?	Yes	NoX	If yes, optional	Wetland Site ID	:		
Remarks: (Explain alte	ernative procedure	es here or in a ser	arate report)					
i terriarks. (Expiairi aite	ernative procedure	ss riere or iii a sep	diale report.)					
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one req	uired; check all tha	at apply)		Se	econdary Indica	ators (minimum of t	wo required)
Surface Water (A	\1)		Water-Stained Leaves	s (B9)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)	•		Marl Deposits (B15)		_	Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)	_	Dry-Season	Water Table (C2)	
Sediment Deposi	•		Oxidized Rhizosphere		(C3)	Crayfish Bu		
Drift Deposits (B3	. ,		Presence of Reduced	-		_	/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•		Recent Iron Reduction	, ,	<u> </u>		Stressed Plants (D1	
1 -				•	_	-	Position (D2)	,
I Iron Denosits (B5)	5)							
Iron Deposits (B5	•		Thin Muck Surface (C	•	_			
Inundation Visible	e on Aerial Imager	· · · · —	Other (Explain in Ren	•	_	Shallow Aqu	uitard (D3)	
Inundation Visible	•	· · · · —		•	=	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible	e on Aerial Imager	· · · · —		•	- - - -	Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible	e on Aerial Imager	· · · · —		•	- - - -	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat	e on Aerial Imager ted Concave Surfa	ace (B8)	Other (Explain in Ren	•	_ _ _ 	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations:	e on Aerial Imager ted Concave Surfa	ace (B8)	Other (Explain in Ren	•	_ _ _ _	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen	e on Aerial Imager ted Concave Surfa	No X	Other (Explain in Ren	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen Water Table Present?	e on Aerial Imager ted Concave Surfa	No X No X	Other (Explain in Ren Depth (inches): Depth (inches):	narks)	Vetland Hydrolo	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Present Water Table Present? Saturation Present?	e on Aerial Imager ted Concave Surfa	No X No X	Other (Explain in Ren Depth (inches): Depth (inches):	narks)	Vetland Hydrolo	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes Yes Yes 1999)	No X No X No X	Other (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X

			Sampling Point:014-1U
			Dominance Test worksheet:
			Number of Dominant Species
Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
	- 		T
_			Total Number of Dominant
_	_ Yes		Species Across All Strata: 7 (B)
15	Yes	FACU	Percent of Dominant Species
			That Are OBL, FACW, or FAC: 14.3 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
90	_ = lotal Cov	er	OBL species 0 $x 1 = 0$
10	Vaa	FACIL	FACW species 0 x 2 = 0
		PACU	FAC species 45 x 3 = 135
			FACU species 85 x 4 = 340
			UPL species 5 x 5 = 25
			Column Totals: 135 (A) 500 (B)
			Prevalence Index = B/A = 3.7
			Frevalence index - B/A
			Hydrophytic Vegetation Indicators:
10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
	.,		2 - Dominance Test is >50%
	_ Yes	FAC	3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations (Provide supporting
_			Problematic Hydrophytic Vegetation¹ (Explain)
_			
	No	UPL	¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
	- Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
	_ = 10(a) C0V	CI	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	_		
			Woody vines - All woody vines greater than 3.28 ft in height.
_			neight.
	= Total Cov	ver	Hydrophytic
	_ 10101 001	OI .	Vegetation
			Present? Yes No X
	%Cover 30 30 15 15 15 10 90 10 30 20 15 15 5	%Cover Species? 30 Yes 30 Yes 15 Yes 90 = Total Cov 10 Yes 20 Yes 15 Yes 5 No	%Cover Species? Status 30 Yes FACU 15 FAC FACU 15 Yes FACU 90 = Total Cover 10 Yes FACU 30 Yes FAC 20 15 Yes 15 Yes 5 No UPL 85 = Total Cover

SOIL Sampling Point: 014-1U

Profile Desc Depth	cription: (Describe to the Matrix	ne depth ne		he indicator x Features	or confirm th	ne absen	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	arks
0-	10 yr 2/1	100					Loam		
8-24	10 yr 3/2	100	-				Silt loam		
			-						
			-						
	- 								
	·								
¹Type: C=Co	 ncentration, D=Depletio	n, RM=Redu	 uced Matrix, MS=Mas	ked Sand Gr	 ains.		²Location	PL=Pore Lining,	M=Matrix.
		,	, , ,						
Hydric Soil I			Debaselya Dela	Curfosa (Ci	2) / DD D M	I DA 440		Problematic Hyd	
Histosol	• •		Polyvalue Belov	•				k (A10) (LRR K,	•
	pipedon (A2)		Thin Dark Surfa			149B)		nirie Redox (A16)	
_	istic (A3)		Loamy Mucky N		(LKK N, L)				S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed Depleted Matrix					ace (S7) (LRR K Below Surface (S	
	d Below Dark Surface (/	۸11)	Redox Dark Su					Surface (S9) (LI	
	ark Surface (A12)	-111 <i>)</i>	Depleted Dark						F12) (LRR K, L, R
	Mucky Mineral (S1)		Redox Depress					•	(F19) (MLRA 149B
	Gleyed Matrix (S4)		Rodox Boprood	MONO (1 0)					A 144A, 145, 149B
	Redox (S5)							nt Material (F21)	, ,
	d Matrix (S6)							low Dark Surface	(TF12)
	urface (S7) (LRR R, ML	.RA 149B)						plain in Remarks)	
_								,	
³ Indicators of	f hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed o	r problem	natic.		
	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Prese	ent? Yes	No <u>X</u>
Remarks:									

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautaud	qua County	Sampling Date:	07/01/2020
Applicant/Owner:		nectGen LLC	,	State: New York		014-1W
• • • • • • • • • • • • • • • • • • • •	Matt Spadoni & Sam Parker		Township, Range:		vn of Ripley	
Landform (hillslope, terrace, et	•		ave, convex, none):			6): 2-5
Subregion (LRR or MLRA):			18206878 Long:		· ·	NAD 83
Soil Map Unit Name:		Chadakoin silt loam		NWI classification		
Are climatic / hydrologic condit				no, explain in Remark	-	
, ,	X , or Hydrology	· · · · · · · · · · · · · · · · · · ·		l Circumstances" prese	•	No X
	, or Hydrology			explain any answers in		_ 110X
				•	•	
SUMMARY OF FINDING			oint locations, trans	sects, important	reatures, etc.	
Hydrophytic Vegetation Pres	sent? Yes X	No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland	I Site ID:	Wetland 13	
	e procedures here or in a seg splits stream 10 and may be		vetland 13			
HYDROLOGY						
Wetland Hydrology Indicat	ore:					
	of one required; check all th	at annly)		Secondary Indica	ators (minimum of two	required)
Surface Water (A1)	· · · · · · · · · · · · · · · · · · ·	Water-Stained Leaves	(P0)		Cracks (B6)	requireu)
High Water Table (A2)		Aquatic Fauna (B13)	(09)	X Drainage Pa	` ,	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	, ,	
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)		Water Table (C2)	
Sediment Deposits (B2		Oxidized Rhizospheres	` '	Crayfish Bu		
Drift Deposits (B3)		Presence of Reduced I	- · ·		/isible on Aerial Image	on. (C0)
Algal Mat or Crust (B4)		Recent Iron Reduction	, ,		Stressed Plants (D1)	ery (C9)
Iron Deposits (B5)		Thin Muck Surface (C7	` ,	X Geomorphic	` '	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema		Shallow Aqu		
Sparsely Vegetated Co	- · · · · <u>-</u>	_ Other (Explain in Neme	iiks)		aphic Relief (D4)	
Sparsely vegetated Co	icave Surface (DO)			X FAC-Neutra		
				X The Neutra	1 1651 (150)	
Field Observations:						
Surface Water Present?	Yes No _ X	Depth (inches):				
Water Table Present?	Yes NoX	Depth (inches):				
Saturation Present?	Yes NoX	Depth (inches):	Wetland I	Hydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (str	ream gauge, monitoring well,	aerial photos, previous ir	spections), if available:			
Remarks:						
Remarks.						

Name	/EGETATION - Use scientific names of plants.				Sampling Point:014-1W
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 3 (A)					Dominance Test worksheet:
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 3 (A)					
Time Stratum (Plot size: 30 %Cover Species? Status		Absolute	Dominant	Indicator	·
	Tree Stratum (Plot size: 30)				(,,
Species Across All Stratus 3 (B)					Total Number of Dominant
3.					
## Percent of Dominant Species ## That Are OBL, FACW, or FAC:				-	openies / toross / tir otrata.
That Are OBL, FACW, or FAC:	<u> </u>				Percent of Deminant Species
Providence Index worksheet: Total % Cover of:					•
Prevalence Index worksheet: Total Cover					That Are OBL, FACW, or FAC: 100.0 (A/B)
Total % Cover of:			_		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	1.				
1.		25	_ = Total Cov	er	
2					
2	1				
A	2		_		· — — — — — — — — — — — — — — — — — — —
Column Totals: 60	2				
Prevalence Index = B/A = 2.17 Prevalence Index = B/A = 1. Prevalence Index = B/A = 2.17 Problematic Hydrophytic Vegetation Strate Index Index Index = 2	4				· — — — — — — — — — — — — — — — — — — —
6.	5.				` , ` ;
Herb Stratum (Plot size: 5 20					Prevalence Index = B/A = 2.17
Hydrophytic Vegetation Indicators: 1. Impatiens capensis / Spotted jewelweed 20	7				
Herb Stratum (Plot size: 5) 1. Impatiens capensis / Spotted jewelweed 20 Yes FACW 2. Boehmeria cylindrica / Smallspike false nettle 15 Yes OBL 3. 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4. 5	· ·		= Total Cov	er	Hydrophytic Vegetation Indicators:
1. Impatiens capensis / Spotted jewelweed 20 Yes FACW 2. Boehmeria cylindrica / Smallspike false nettle 15 Yes OBL 3. 4. 5. 6. 5. 6. 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	Herb Stratum (Plot size: 5		_ 10101 001	Ci	1 - Rapid Test for Hydrophytic Vegetation
2. Boehmeria cylindrica / Smallspike false nettle 3. 4. 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. 5. 5. 6. 7. 8. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	 :	20	Voc	EACW/	X 2 - Dominance Test is >50%
3					X 3 - Prevalence Index ≤3.01
4 Problematic Hydrophytic Vegetation¹ (Explain) 5		15	Yes	OBL	4 - Morphological Adaptations (Provide supporting
4				-	
6.	4				
be present, unless disturbed or problematic. Definitions of Vegetation Strata	5				¹Indicators of hydric soil and wetland hydrology must
8.	6.				
9.	7				be present, unless distarbed of problematic.
9.	8				Definitions of Vegetation Strata
10	^				
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: The problem of the problem					Tree - Woody plants 3 in (7.6 cm) or more in diameter at
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.	11.				
Woody Vine Stratum (Plot size: 30) 1.	12	 -			
Woody Vine Stratum (Plot size: 30) 1	·-·		= Total Cov	er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation Present? Yes X No	Woody Vine Stratum (Plot size: 30)		_ ''ota' ''o''	01	
2					, ,,,
3	-		_	-	'''
4	2				, ,
0 = Total Cover	3.				neight.
Vegetation Present? Yes X No	4				
Present? Yes X No		0	_ = Total Cov	er	
Remarks: (Explain alternative procedures here or in a separate report.)					Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)					
	Remarks: (Explain alternative procedures here or in a separa	ate report.)			

 SOIL
 Sampling Point: ___014-1W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u>. </u>
0-6	10YR 2/1	100		_			Mucky loam			
6-18	10YR 2/1	80	10YR 5/8	20	С	PL,M	Clayey loam			
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=F	ore Lining, M=	Matrix.
lydric Soil I	ndicatore:						Indicators	for Probl	ematic Hydric	Soile3:
X Histosol			Polyvalue Belov	w Surface (S	9) /I DD D	MI DA 140) (LRR K, L, I	
	• •									
	pipedon (A2)		Thin Dark Surfa						edox (A16) (L	
	istic (A3)		Loamy Mucky N		(LKK K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					-	(S7) (LRR K, L)	
	d Layers (A5)	\11\	Depleted MatrixX Redox Dark Su						v Surface (S8)	
	d Below Dark Surface (A	A11)	Depleted Dark Su						ce (S9) (LRR	n, L)) (LRR K, L, R)
	ark Surface (A12) /lucky Mineral (S1)							ū	,	, , , , ,
	, , ,		Redox Depress	ions (Fo)						9) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)								erial (F21)	44A, 145, 149B)
	Matrix (S6)								ark Surface (TF	-12)
	rface (S7) (LRR R, ML	DA 140D)							n Remarks)	12)
Dark Su	inace (37) (LKK K, WL	.KA 143D)					Other	(Explail)	ii Reiliaiks)	
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed	d or problem	natic.			
	_ayer (if observed):									
Type:	1 \									
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripl	ev	City/County:	Chautauqua C	County	Sampling Date:	07/01/2020
Applicant/Owner:	·		, , <u> </u>		te: New York		015-1U
Investigator(s):	Matt Spadoni & Sam		Section, Township, Ra			vn of Ripley	
Landform (hillslope, terrace	•		ef (concave, convex,		Convex	. ,	(%): 3-5
Subregion (LRR or MLRA):				Long:	-79.668616		`
Soil Map Unit Name:					NWI classification		··
Are climatic / hydrologic cor				(If no	explain in Remark		
, ,	Soil, or Hydrolo	•			umstances" prese		. No
	Soil, or Hydrolo				in any answers in		
SUMMARY OF FINDI					•	•	
		-			is, important	icatures, etc.	
Hydrophytic Vegetation P	•	No X	•	pled Area			
Hydric Soil Present?	•	No X				NoX	_
Wetland Hydrology Prese	:nt? Yes	NoX	If yes, option	onal Wetland Site	ID:		
Remarks: (Explain alterna	ative procedures here or	in a separate report)	•				
(=	р						
LIV/DDOL GOV							
HYDROLOGY							
Wetland Hydrology Indi	cators:						
Primary Indicators (minim	ium of one required; chec	ck all that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)		Water-Stained	Leaves (B9)		Surface Soi	Cracks (B6)	
High Water Table (A	2)	Aquatic Fauna	(B13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits	B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfi	de Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizo	spheres on Living Ro	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Ro	educed Iron (C4)		Saturation \	isible on Aerial Ima	igery (C9)
Algal Mat or Crust (E	34)	Recent Iron Re	duction in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Sur	ace (C7)		Geomorphic	Position (D2)	
Inundation Visible or	n Aerial Imagery (B7)	Other (Explain	in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	Concave Surface (B8)	<u> </u>			Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
-							
Field Observations:							
Surface Water Present?		Depth (inches	• ———				
Water Table Present?	Yes No	' ' '	<i>'</i>				
		Depth (inches	;):	Wetland Hydr	ology Present?	Yes	No X
Saturation Present?	Yes No						
Saturation Present? (includes capillary fringe)		ug well periol photos pr	wique inenections) if	available:			
Saturation Present?		ng well, aerial photos, pro	evious inspections), if	available:			
Saturation Present? (includes capillary fringe)		ng well, aerial photos, pro	evious inspections), if	available:			
Saturation Present? (includes capillary fringe)		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pri	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pri	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pn	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			
Saturation Present? (includes capillary fringe) Describe Recorded Data		ng well, aerial photos, pr	evious inspections), if	available:			

VEGETATION - Use scientific names of plants.				Sampling Point: 015-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',
1. Tsuga canadensis / Eastern hemlock	35	Yes	FACU	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	25	Yes	FAC	Species Across All Strata: 5 (B)
3. Fagus grandifolia / American beech	20	Yes	FACU	(=)
4.				Percent of Dominant Species
5.		-		That Are OBL, FACW, or FAC: 40.0 (A/B)
6				
7.		_		Prevalence Index worksheet:
· · · · ·	80	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_	-	OBL species $0 x 1 = 0$
				FACW species 0 x 2 = 0
-				FAC species 40 x 3 = 120
2.		<u> </u>	-	FACU species 60 x 4 = 240
3. 4.			-	UPL species 0 x 5 = 0
			- -	Column Totals: 100 (A) 360 (B)
				Prevalence Index = B/A = 3.6
7		= Total Cov		Hydrophytic Vegetation Indicators:
Horb Stratum (Plot size: 5		_ = 10tal C0v	CI CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	15	Voo	EAC	2 - Dominance Test is >50%
Dryopteris intermedia / Evergreen wood fern Forwa grandifelia / American hoods	<u>15</u> 	Yes Yes	FAC FACU	3 - Prevalence Index ≤3.0¹
2. Fagus grandifolia / American beech	<u> </u>		FACU	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8	_			Definitions of Vegetation Strata
9				
10	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	20	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3	_			height.
4	_	_		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	a report \			
Remarks. (Explain alternative procedures here of in a separate	e report.)			

SOIL Sampling Point: 015-1U

	Matrix			k Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	rks
0-6	5YR 2.5/1	100					Loam		
				_,,					
						-			
			-						
			•						
									
ype: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ins.		²Location:	PL=Pore Lining,	M=Matrix.
ydric Soil Ir	ndicatore:						Indicators for	Problematic Hyd	ric Soile ³ :
-			Dobavoluo Bolov	v Curfoco (CC	\	MI DA 440E		-	
_ Histosol			Polyvalue Belov					(A10) (LRR K, I	•
_	ipedon (A2)		Thin Dark Surfa			149B)		rie Redox (A16)	
Black His			Loamy Mucky N		LRR K, L)				33) (LRR K, L, R)
_ , ,	n Sulfide (A4)		Loamy Gleyed I					ice (S7) (LRR K	
	Layers (A5)		Depleted Matrix					Below Surface (S	
Depleted	Below Dark Surface (A	\11)	Redox Dark Su	face (F6)			Thin Dark	Surface (S9) (LI	RR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Mang	anese Masses (F	12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Spo	dic (TA6) (MLR	A 144A, 145, 149B)
Sandy R	edox (S5)						Red Parer	t Material (F21)	
	Matrix (S6)							ow Dark Surface	(TF12)
	face (S7) (LRR R, ML	RA 149B)						olain in Remarks)	,
	····· (•··) (•······ , ···-	,						,	
ndicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.		
estrictive La	ayer (if observed):								
Type:									
							Hydric Soil Prese	nt? Yes	No X
	ches):							<u> </u>	
Depth (inc	ches):								
Depth (inc	ches):Root refusal at 8								
Depth (inc			<u> </u>						
Depth (inc									
Depth (inc									
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Project/Site:	19020 - South Ripley		City/County:	Chautaugua	County	Sampling Date:	07/01/2020
Applicant/Owner:	· •	ConnectGen LLC	, , <u> </u>		tate: New York	· · · -	015-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Townsh	ip, Range:	To	wn of Ripley	
Landform (hillslope, terrace,				nvex, none):	Concave		(%): 3-5
Subregion (LRR or MLRA):							`
Soil Map Unit Name:		Chadakoin silt k			NWI classificati		PFO
Are climatic / hydrologic con	ditions on the site typical fo			No (If no	 o, explain in Remark		-
Are Vegetation, S		•			rcumstances" pres	•	(No
	oil, or Hydrology				lain any answers in		
SUMMARY OF FINDIN		·			•	•	
					oto, important	100101.00, 0101	
Hydrophytic Vegetation Pr Hydric Soil Present?	resent? Yes Yes	X No		Sampled Area	Voo V	No	
					Yes X	No Wetland 15	_
Wetland Hydrology Prese	nt? Yes	X No	_ li yes	, optional Wetland Si	le ID.	vveuanu 15	
Remarks: (Explain alterna	ative procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology India	cators:						
	um of one required; check a	all that apply)			Secondary Indic	ators (minimum of t	wo required)
X Surface Water (A1)	<u> 0. 0.10 10 quil ou, 0.10010 0</u>	X Water-Staine	d Leaves (B9)			il Cracks (B6)	
High Water Table (A2	2)	Aquatic Faur	` '		X Drainage P		
X Saturation (A3)	-7	Marl Deposits				Lines (B16)	
Water Marks (B1)		X Hydrogen Su				Water Table (C2)	
Sediment Deposits (F	32)		zospheres on Livir	na Roots (C3)	Crayfish Bu	` ,	
Drift Deposits (B3)	,		Reduced Iron (C4)	• ,		visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	(4)		Reduction in Tilled			Stressed Plants (D1	
Iron Deposits (B5)	-7	Thin Muck S		()		c Position (D2)	,
Inundation Visible on	Aerial Imagery (B7)		n in Remarks)		Shallow Aq		
<u> </u>	Concave Surface (B8)		,			raphic Relief (D4)	
					X FAC-Neutra		
					_		
Field Observations:	V V N	5 " " 1	,				
Surface Water Present?	Yes X No	Depth (inch	-	<u> </u>			
Water Table Present?	Yes X No	Depth (inch	· ——	_			
Saturation Present?	Yes X No	Depth (inch	es): 8	Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data	(stream gauge, monitoring v	vell, aerial photos, p	previous inspection	ns), if available:			
Remarks:							

Prevalence Index worksheet: Total % Cover of: Multiply by:					Sampling Point:015-1W
Absolute					Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata: 3 (8)					Number of Dominant Species
Test Stratum (Plot size: 30 %Cover Species? Status		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
2 Species Across All Strata: 3 (B)	Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
2 Species Across All Strata: 3 (B)		75	Yes	FAC	Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/I foliation 100.0		20	No	FACU	Species Across All Strata: 3 (B)
That Are OBL, FACW, or FAC: 100.0 (All 6)	3.		'		
That Are OBL, FACW, or FAC: 100.0 (All 6.6	4.				Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by:	_				·
Prevalence Index worksheet: Total % Cover of: Multiply by:					
Total Stratum			<u> </u>		Prevalence Index worksheet:
1. 2. 3. 4. 5. 6. 6. 7. Herb Stratum (Plot size: 5) 1. Carex arctata / Drooping woodland sedge			= Total Cov	er	Total % Cover of: Multiply by:
FACW species 90	Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
2.					FACW species 90 x 2 = 180
FACU Species 20					FAC species 75 x 3 = 225
4.	3				FACU species 20 x 4 = 80
5. Column Totals: 185 (A) 485 (UPL species 0 x 5 = 0
Prevalence Index = B/A = 2.62 Prevalence Index = B/A = 2.62 Prevalence Index = B/A = 2.62 Prevalence Index = B/A = 2.62 Prevalence Index = Inde					Column Totals: 185 (A) 485 (B)
Herb Stratum (Plot size:5	^				
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0* X 5 - Problematic Hydrophytic Vegetation* (Provide supporting Problematic Hydrophytic Vegetation* (Pr	7		-	 	
Herb Stratum (Plot size:	<i>1</i>		T-4-1 O		Hydrophytic Vegetation Indicators:
1. Carex arctata / Drooping woodland sedge 2. Impatiens capensis / Spotted jewelweed 2. Syes FACW 3. Onoclea sensibilis / Sensitive fern 4. Osmunda cinnamomea / Cinnamon fern 5. No FACW 5. Somunda cinnamomea / Cinnamon fern 5. No FACW 6. Short FACW 7. Short FACW 8. Short FACW 9. Smunda cinnamomea / Cinnamon fern 10. Short FACW 11. Sapling/shrub - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), 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. Sapling/shrub - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 13. Sapling/shrub - All woody vines greater than 3.28 ft in height. 14. Sapling/shrub - Woody vines greater than 3.28 ft in height. 15. Sapling/shrub - Woody vines greater than 3.28 ft in height. 16. Sapling/shrub - All woody vines greater than 3.28 ft in height.	11 1 01 1 (5)		_ = lotal Cov	er	1 - Rapid Test for Hydrophytic Vegetation
2. Impatiens capensis / Spotted jewelweed 3. Onoclea sensibilis / Sensitive fern 4. Osmunda cinnamomea / Cinnamon fern 5. No FACW 5. Osmunda cinnamomea / Cinnamon fern 5. No FACW 6. Osmunda cinnamomea / Cinnamon fern 7. Osmunda cinnamomea / Cinnamon fern 8. Osmunda cinnamomea / Cinnamon fern 9. Osmunda cinnamomea / Cinnamon fern 10. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamomea / Cinnamon fern 10. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamomea / Cinnamon fern 12. Osmunda cinnamomea / Cinnamon fern 13. One FACW 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamomea / Cinnamon fern 12. Osmunda cinnamomea / Cinnamon fern 13. Osmunda cinnamomea / Cinnamon fern 14. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 12. Osmunda cinnamomea / Cinnamon fern 13. Osmunda cinnamomea / Cinnamon fern 14. Osmunda cinnamomea / Cinnamon fern 15. No FACW 11. Osmunda cinnamomea / Cinnamon fern 12. Osmunda cinnamomea / Cinnamon fern 13. Osmunda cinnamomea / Cinnamon fern 14. Osmunda cinnamomea / Cinnamon fern 15. No FACW 14. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamo					X 2 - Dominance Test is >50%
2. Impatiens capensis / Spotted jeweiweed 3. Onoclea sensibilis / Sensitive fern 4. Osmunda cinnamomea / Cinnamon fern 5. No FACW 5. Osmunda cinnamomea / Cinnamon fern 6. Osmunda cinnamomea / Cinnamon fern 7. Osmunda cinnamomea / Cinnamon fern 8. Osmunda cinnamomea / Cinnamon fern 9. Osmunda cinnamomea / Cinnamon fern 9. Osmunda cinnamomea / Cinnamon fern 10. Osmunda cinnamomea / Cinnamon fern 11. Osmunda cinnamomea / Cinnamon fern 12. Osmunda cinnamomea / Cinnamon fern 13. Osmunda cinnamomea / Cinnamon fern 14. Osmunda cinnamomea / Cinnamon fern 15. No FACW 1ndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation					X 3 - Prevalence Index ≤3.0¹
3. Omoclea sensibilis / Sensitive ferr 4. Osmunda cinnamomea / Cinnamon fern 5. No FACW 5.					
Somunda cinnamomea / Cinnamon tern S No FACW The content of the content	Onoclea sensibilis / Sensitive fern		No	FACW	
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	4. Osmunda cinnamomea / Cinnamon fern	5	No	FACW	
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of neight. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.	5				Indicators of hydric soil and wetland hydrology must
8.	6		- 1		
8. 9. Definitions of Vegetation Strata 9. 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. 11. Woody vines - All woody vines greater than 3.28 ft in height.	7				be present, unless disturbed of problematic.
9	0				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	0				
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The proof of the proof of the plant in the pla	10.		- '-		Tree - Woody plants 3 in (7.6 cm) or more in diameter at
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:	11.				
Woody Vine Stratum (Plot size:30) 1	12.				
Woody Vine Stratum (Plot size:30) 1		90	= Total Cov	er	
1	Woody Vine Stratum (Plot size: 30)		_		
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	1				
3. height. 1. O = Total Cover Hydrophytic Vegetation	2				
4. O = Total Cover Hydrophytic Vegetation	3				
0 = Total Cover Hydrophytic Vegetation	4		-		noight.
Vegetation	T		= Total Cov		Hydrophytic
			_ = 10(a) C0V	CI	
Procent2 Voc V No					
Present? Yes X No					Present? fes A NO

SOIL

Sampling Point: 015-1W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-18 10YR 2/1 100 Mucky loam	
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 :	
X Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 14	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L,	-
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K	
	., , 13 <i>)</i>
X Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)	. 17
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K	, L)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)	
X Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLR	_
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 14	5, 149B)
Sandy Redox (S5) Red Parent Material (F21)	
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
_	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Туре:	
Depth (inches): Hydric Soil Present? Yes X No	
Remarks:	

Project/Site:	19020 - South Ripley	City/Co	unty: Chautauqi	ua County	Sampling Date:	07/01/2020
Applicant/Owner:		onnectGen LLC	,	State: New York		016-1U
Investigator(s):	Matt Spadoni & Sam Park		, Township, Range:		n of Ripley	
Landform (hillslope, terrace			cave, convex, none):		. ,	%): 5-10
Subregion (LRR or MLRA):			.18132478 Long:			· -/
,		Chadakoin silt loam		NWI classificatio		
· · · · · · · · · · · · · · · · · · ·	nditions on the site typical for t		X No (If	no, explain in Remarks		
, ,	Soil, or Hydrology _			Circumstances" preser		No
	Soil, or Hydrology _			xplain any answers in I		
· · · · · · · · · · · · · · · · · · ·	NGS - Attach site map			•	•	
	-			sects, important i	catares, etc.	
Hydrophytic Vegetation P			Is the Sampled Area			
Hydric Soil Present?	Yes	 	within a Wetland?		NoX	
Wetland Hydrology Prese	ent? Yes	NoX	If yes, optional Wetland	Site ID:		
Remarks: (Explain alterna	ative procedures here or in a s	separate report)				
Tromano. (Explain altorno	auvo proceduros nore er in a c	oparato roporti,				
HYDROLOGY						
Wetland Hydrology Indi	cators:					
Primary Indicators (minim	um of one required; check all	that apply)		Secondary Indica	tors (minimum of tw	o required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)	
High Water Table (A	2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim Li	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odo	r (C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizosphere	s on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	-	Presence of Reduced	Iron (C4)	Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust (E	34)	Recent Iron Reduction	in Tilled Soils (C6)		tressed Plants (D1)	
Iron Deposits (B5)	· -	Thin Muck Surface (C	7)	Geomorphic	Position (D2)	
Inundation Visible or	n Aerial Imagery (B7)	Other (Explain in Rem	arks)	Shallow Aqu		
Sparsely Vegetated	Concave Surface (B8)	_	·	Microtopogra	aphic Relief (D4)	
				FAC-Neutral	Test (D5)	
Field Observations:		X Depth (inches):				
Surface Water Present?						
Surface Water Present? Water Table Present?	Yes No	X Depth (inches):				
Surface Water Present? Water Table Present? Saturation Present?	Yes No X		Wetland F	lydrology Present?	Yes	No X
Surface Water Present? Water Table Present?	Yes No X	X Depth (inches):	Wetland F	lydrology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes	X Depth (inches): Depth (inches):		lydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No X	X Depth (inches): Depth (inches):		lydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes	X Depth (inches): Depth (inches):		Hydrology Present?	Yes	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 016-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Betula alleghaniensis / Yellow birch	50	Yes	FAC	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	35	Yes	FACU	Species Across All Strata: 2 (B)
3. Prunus serotina / Black cherry	10	No	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)
6.				
7.		2 (Prevalence Index worksheet:
	95	= Total Cov	ver	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 50 x 3 = 150
3.				FACU species 45 x 4 = 180
4.				UPL species0 x 5 =0
5				Column Totals: 95 (A) 330 (B)
^			<u> </u>	Prevalence Index = B/A = 3.47
7.				
		= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5)			Ci	1 - Rapid Test for Hydrophytic Vegetation
	50			2 - Dominance Test is >50%
				3 - Prevalence Index ≤3.0¹
2. 3.				4 - Morphological Adaptations (Provide supporting
1			-	Problematic Hydrophytic Vegetation¹ (Explain)
···				
^				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7. 8.				
6. 9.		-		Definitions of Vegetation Strata
10.		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Manda Manda Ottoria	50	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1		_: (size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4				
	0	_ = Total Cov	er er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ite report)			
remarks. (Explain alternative procedures here of in a separa	ite report.)			

 SOIL
 Sampling Point:
 016-1U

Depth (inches)	Matrix		Redox	k Features							
(11101103)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	ks	
0-10	10YR 2/1	100					Loan				
1-10	10YR 4/4	100					Sandy loam				
						 •		-			
						 •		-			
-											
											
								-			
Type: C=Conc	entration, D=Depletion	n. RM=Redu	ced Matrix. MS=Mas	ked Sand Gr	 ains.	·-	²Loca	ation: PL=P	ore Lining, N	1=Matrix.	
•		.,									
ydric Soil Inc									ematic Hydr		
Histosol (A	•		Polyvalue Belov) (LRR K, L		-
Histic Epip	edon (A2)		Thin Dark Surfa			149B)			edox (A16) (
Black Histi			Loamy Mucky N		(LRR K, L)				at or Peat (S		L, R)
Hydrogen	Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	7) (LRR K,	L)	
	ayers (A5)		Depleted Matrix						Surface (S8		L)
Depleted F	Below Dark Surface (A	(11)	Redox Dark Sui						ce (S9) (LR		
_	Surface (A12)		Depleted Dark S					ū	Masses (F1	, .	
Sandy Mu	cky Mineral (S1)		Redox Depress	ions (F8)			Piedr	nont Flood	plain Soils (F	19) (MLRA	149B)
Sandy Gle	yed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA	144A, 145,	149B)
Sandy Red	dox (S5)						Red I	Parent Mat	erial (F21)		
Stripped M	latrix (S6)						Very	Shallow Da	ark Surface (TF12)	
Dark Surfa	ace (S7) (LRR R, ML	RA 149B)					Other	r (Explain iı	n Remarks)		
Indicators of b	udrophytic vogetation	and wattand	hydrology must be n	recent unles	se dieturbed a	or problem	atio				
indicators of n	ydrophytic vegetation a	and welland	nydrology must be p	resent, unies	ss disturbed (or problema	auc.				
_	yer (if observed):										
Type:											
Depth (inch	ies):						Hydric Soil P	resent?	Yes	No	Х
emarks:											
emarks:											
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Project/Site:	19020 - South Ripley	City/Co	unty: Chautaug	ua County	Sampling Date: 07/01/2020
Applicant/Owner:	1 7	ConnectGen LLC	,	State: New York	
Investigator(s):	Matt Spadoni	Section	Township, Range:		n of Ripley
	ce, etc): Hillside se		cave, convex, none):		1 /
): LRR R MLRA 13		.18132445 Long:		· · · ·
	,. <u></u>			NWI classificatio	
		or this time of year? Yes	X No (If	no, explain in Remarks	
, ,	,,	significantly disturbe		Circumstances" preser	,
		naturally problemat		xplain any answers in	
		ip showing sampling i		•	•
				sects, important i	eatures, etc.
Hydrophytic Vegetation		X No	Is the Sampled Area		
Hydric Soil Present?	Yes	X No	within a Wetland?	Yes X	
Wetland Hydrology Pre	sent? Yes	X No	If yes, optional Wetland	Site ID:	Wetland 16
Remarks: (Explain alter	native procedures here or in	a separate report)	•		
Tromanion (Explain and	name procedures note of m	a coparato roporti,			
HYDROLOGY					
Wetland Hydrology In					
Primary Indicators (min	imum of one required; check	all that apply)		Secondary Indica	tors (minimum of two required)
X Surface Water (A1)	X Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
X High Water Table (A2)	Aquatic Fauna (B13)		X Drainage Pa	tterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		X Hydrogen Sulfide Odo	r (C1)	Dry-Season	Water Table (C2)
Sediment Deposits	s (B2)	X Oxidized Rhizosphere	s on Living Roots (C3)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust	(B4)	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C	7)	X Geomorphic	Position (D2)
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in Rem	arks)	Shallow Aqu	itard (D3)
Sparsely Vegetate	d Concave Surface (B8)	_		Microtopogra	aphic Relief (D4)
				FAC-Neutral	Test (D5)
Field Observations					
Field Observations:)	Donath (in the se)	4		
Surface Water Present		Depth (inches):	1 10		
Water Table Present?	Yes X No	Depth (inches):	12		V V N
Saturation Present?	Yes X No	Depth (inches):	Wetland F	Hydrology Present?	Yes X No
(includes capillary fringe	9)				
Describe Recorded Dat	a (stream gauge monitoring	well, aerial photos, previous i	nspections) if available:		
Booting Rooting But	a (on our gaago, mornioring	won, donar priotoo, proviodo i	iopodiono), ii avallabio.		
Remarks:					

VEGETATION - Use scientific names of plants.				Sampling Point: 016-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Betula alleghaniensis / Yellow birch	25	Yes	FAC	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	10	Yes	FACU	Species Across All Strata: 3 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 66.7 (A/B)
6.				
7.				Prevalence Index worksheet:
	35	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 10 x 1 = 10
1.				FACW species 55 x 2 = 110
2.				FAC species 25 x 3 = 75
3.	0.0			FACU species 10 x 4 = 40
4.			-	UPL species 0 x 5 = 0
5.			-	Column Totals:100 (A)235 (B)
6.			- ,,	Prevalence Index = B/A = 2.35
7.		-		
· · ·	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	45	Yes	FACW	X 2 - Dominance Test is >50%
Myosotis scorpioides / Forget me not, Water forget-me-not	10	No	OBL	X 3 - Prevalence Index ≤3.0¹
Polygonum virginianum / Jumpseed	10	No	FACW	4 - Morphological Adaptations (Provide supporting
4.			TACW	Problematic Hydrophytic Vegetation¹ (Explain)
				
^			<u> </u>	¹ Indicators of hydric soil and wetland hydrology must
-			-	be present, unless disturbed or problematic.
7				
8.		_		Definitions of Vegetation Strata
9.				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1.15 Oct (70.1)	65	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No
Demonstra /Fundain alternative presedures have as in a conserte				
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks

0-18 10YR 2/1 100 Mucky loam

(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture	Remarks
0-18	10YR 2/1	100					Mucky loam	
				·				
-								
				·				
¹Type: C=Cor	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ains.	_	²Location: I	PL=Pore Lining, M=Matrix.
Black His X Hydroge Stratified	(A1) pipedon (A2)	A 11)	Polyvalue Below Thin Dark Surfa Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur	ce (S9) (LR lineral (F1) (Matrix (F2) (F3)	R R, MLRA		2 cm Muck Coast Prair 5 cm Muck Dark Surfar Polyvalue B	Problematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R) y Peat or Peat (S3) (LRR K, L, R) ce (S7) (LRR K, L) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
	rk Surface (A12) lucky Mineral (S1)		Depleted Dark S Redox Depressi					anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)		<u> </u>	, ,			_	dic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							t Material (F21)
	Matrix (S6) face (S7) (LRR R, ML	RA 149B)						ow Dark Surface (TF12) lain in Remarks)
	(27) (2141114, 1112	,					Outlot (EXP	ian in remarkey
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent, unles	s disturbed	or problen	natic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Presen	nt? Yes X No
Remarks:								

Project/Site:	19020 - 3	South Ripley	City	/County:	Chautauqua C	County	Sampling Date:	07/01/2020
Applicant/Owner:			nectGen LLC		•	ite: New York		017-1U
Investigator(s):		oni & Sam Parker		tion, Township, Ra			wn of Ripley	00
Landform (hillslope, terrac				concave, convex,		Convex		(%): 5-11
Subregion (LRR or MLRA			Lat:	42.18107555	Long:	-79.6667108		`
Soil Map Unit Name:		CTCTMETOT TOO	Erie silt loam	12:10101000		NWI classification	-	10.00
Are climatic / hydrologic co		eite tynical for this		Y No.	(If no	explain in Remark		
, ,		• • •	significantly dist		` '	umstances" prese	,	. No
			naturally probler			in any answers in		
						•		
SUMMARY OF FIND	JINGS - Attac	en site map sn	lowing samplin	g point locati	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation	Present?	Yes		Is the Sam	pled Area			
Hydric Soil Present?		Yes	No X	within a W	etland?	Yes	No X	_
Wetland Hydrology Pres	sent?	Yes	NoX	If yes, option	nal Wetland Site	ID:		
Domarka: (Evalain alter	rativa procedure	a hara ar in a aan	arata rapart \	<u> </u>				
Remarks: (Explain alter	native procedure	es nere or in a sepa	arate report.)					
HYDROLOGY								
Wetland Hydrology Inc	dicators:							
Primary Indicators (mini		uired: check all tha	t apply)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1		an ou, oncon an ana	Water-Stained Lea	ves (B9)			I Cracks (B6)	10 : 0qu.: 0u)
High Water Table (•		Aquatic Fauna (B1	` '			atterns (B10)	
Saturation (A3)	,,		Marl Deposits (B15			Moss Trim L		
Water Marks (B1)			Hydrogen Sulfide (-			Water Table (C2)	
Sediment Deposits	s (B2)		Oxidized Rhizosph		nts (C3)	Crayfish Bu		
Drift Deposits (B3)	` ,		Presence of Reduc	-	000)		/isible on Aerial Ima	gery (C0)
Algal Mat or Crust			Recent Iron Reduc	` ,	(C6)	_	Stressed Plants (D1	
1 -					(00)		,)
Iron Deposits (B5)			Thin Muck Surface				Position (D2)	
Inundation Visible	-		Other (Explain in R	(emarks)		Shallow Aqu		
Sparsely Vegetate		ice (B8)					aphic Relief (D4)	
	a concave curie					FAC-Neutra	i iesi (D5)	
	d Concave Curie					_		
Field Observations:	d Odricave Guire							
		No X	Depth (inches):					
Field Observations:			- ' ' '					
Field Observations: Surface Water Present? Water Table Present?	? Yes _ Yes _		Depth (inches):		Wetland Hvdr	rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	? Yes Yes Yes	No X			Wetland Hydr	ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present?	? Yes Yes Yes	No X	Depth (inches):		Wetland Hydr	ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		ology Present?	Yes	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	? Yes Yes Yes Yes Yes	No X No X	Depth (inches): Depth (inches):	us inspections), if		rology Present?	Yes	NoX

VEGETATION - Use scientific names of plants.				Sampling Point: 017-1	U
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	•	۸)
Trop Stratum (Diet size: 20	%Cover		Status	That Are OBL, FACW, or FAC: 1 (/	٦)
Tree Stratum (Plot size: 30)		Species?		Total Niverban of Densin and	
Tsuga canadensis / Eastern hemlock	80	Yes	FACU	Total Number of Dominant	D \
	. ———			Species Across All Strata: 3 (i	B)
3.	_				
4				Percent of Dominant Species	
5	_			That Are OBL, FACW, or FAC: 33.3	A/B)
6					
7	_			Prevalence Index worksheet:	
	80	_ = Total Cov	er	Total % Cover of: Multiply by:	-
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0	-
1.				FACW species 0 x 2 = 0	-
2.				FAC species 10 x 3 = 30	-
3	- '-			FACU species <u>85</u> x 4 = <u>340</u>	-
4.				UPL species 0 x 5 = 0	_
5.				Column Totals: 95 (A) 370	(B)
				Prevalence Index = B/A = 3.89	
7					
·	0	= Total Cov	er	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)		_ = 10(a) 000	Ci	1 - Rapid Test for Hydrophytic Vegetation	
	10	Vac	FAC	2 - Dominance Test is >50%	
Dryopteris intermedia / Evergreen wood fern		Yes	FAC	3 - Prevalence Index ≤3.01	
2. Acer saccharum / Sugar maple		Yes	FACU	4 - Morphological Adaptations (Provide supporting	J
3.				Problematic Hydrophytic Vegetation¹ (Explain)	
4				_ , , , , , , , , , , , , , , , , , , ,	
5	_			¹Indicators of hydric soil and wetland hydrology must	
6				be present, unless disturbed or problematic.	
7	_			be present, unless distarbed or problematic.	
8				Definitions of Vegetation Strata	
9					
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter	at
11.				breast height (DBH), regardless of height.	<u></u>
12.				Sapling/shrub - Woody plants less than 3 in. DBH and	4
	15	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	1
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of	of
1.				size, and woody plants less than 3.28 ft tall.	JI
2.					
2	-			Woody vines - All woody vines greater than 3.28 ft in	
J				height.	
4.	0	= Total Cov	or.	Hydrophytic	
		_ = 10(a) COV	CI	Vegetation	
				_	
				Present? Yes No X	
Remarks: (Explain alternative procedures here or in a separate	report)				
remarks. (Explain alternative procedures here of in a separate	report.)				

SOIL Sampling Point: 017-1U

Depth	ription: (Describe to the Matrix			x Features				•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-1	10YR 2/1	100					Loan				
1-12	10YR 4/6	100					Sandy loam				
								-			
								-			
	-										
								-			
	-							-			
	·										
Tyne: C=Co	ncentration, D=Depletion	n RM=Redu	 ced Matrix MS=Mas	ked Sand Gr			2l oca	tion: PI =P	ore Lining, N	 ∕I=Matrix	
Турс. 0-00		II, IXWI–IXCUU		- Cu Garia Gre	aii i 5.		Loca		OIC LIIIIIIg, N		
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydı	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S8	3) (LRR R,M	LRA 1491	B) 2 cm l	Muck (A10) (LRR K, L	, MLRA 149	9B)
Histic E	pipedon (A2)		Thin Dark Surfa	ace (S9) (LR	R R, MLRA	149B)	Coast	Prairie Re	edox (A16)	(LRR K, L, F	R)
Black H	istic (A3)		Loamy Mucky N	Mineral (F1)	LRR K, L)				at or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		•				7) (LRR K,		-
	d Layers (A5)		Depleted Matrix					-	Surface (St	-	L)
	d Below Dark Surface (A	\11)	Redox Dark Su						ce (S9) (LR		,
	ark Surface (A12)	,	Depleted Dark	. ,					Masses (F1		(. L. R)
	Aucky Mineral (S1)		Redox Depress					-	plain Soils (F		
′	Gleyed Matrix (S4)								A6) (MLRA		-
	Redox (S5)							Parent Mate			, ,
	Matrix (S6)								ark Surface (TF12\	
	rface (S7) (LRR R, ML	DA 1/0R)							n Remarks)	11 12)	
Daik Su	illace (37) (LIXIX IX, IVIL	INA 1430)					Other	(LXPIAIII II	i ixemaiks)		
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed o	r problem	atic.				
	_ayer (if observed):										
Type:											
Depth (in	iches):						Hydric Soil Pi	resent?	Yes	No _	X
Remarks:											
	Root refusal at 12										

Project/Site:	19020 - South Ripley	Ci	ty/County:	Chautauqua (County	Sampling Date:	07/01/2020
Applicant/Owner:	<u> </u>	ConnectGen LLC	, , <u> </u>		ate: New York	· · · -	017-1W
Investigator(s):	Matt Spadoni & Sam Pa		ection, Township, R			vn of Ripley	-
Landform (hillslope, terrace,			f (concave, convex		Concave		(%): 2-5
Subregion (LRR or MLRA):		•	•	Long:	-79.6666897		` '
Soil Map Unit Name:		Erie silt loam			NWI classification		PFO
Are climatic / hydrologic cond			es X No) (If no	explain in Remark		
, ,	oil, or Hydrology	•	isturbed?		cumstances" prese	,	(No
	oil , or Hydrology				ain any answers in		
SUMMARY OF FINDIN					•	•	
					is, important	leatures, etc.	
Hydrophytic Vegetation Pro		X No		npled Area			
Hydric Soil Present?		X No	within a V		Yes X	_	_
Wetland Hydrology Preser	t? Yes	X No	If yes, opt	ional Wetland Site	e ID:	Wetland 17	
Remarks: (Explain alternat	ive procedures here or in a	senarate report)					
Tromano. (Explain alternat	ave procedures here of mre	ooparato roporti,					
HYDROLOGY							
Wetland Hydrology Indic	ators:						
Primary Indicators (minimu	ım of one required; check a	ll that apply)			Secondary Indica	ators (minimum of to	wo required)
X Surface Water (A1)		X Water-Stained Lo	eaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (E	313)		Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Deposits (B	15)		Moss Trim L	ines (B16)	
Water Marks (B1)		X Hydrogen Sulfide	e Odor (C1)		X Dry-Season	Water Table (C2)	
Sediment Deposits (E	32)	Oxidized Rhizos	pheres on Living R	oots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	•	Presence of Red	luced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4	1)	Recent Iron Red	uction in Tilled Soil	s (C6)		Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Surfa		,	X Geomorphic	,	,
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in			Shallow Aqu		
Sparsely Vegetated C			,			aphic Relief (D4)	
					X FAC-Neutral		
				1	_		
Field Observations:							
Surface Water Present?	Yes X No	Depth (inches):	1-3				
Water Table Present?	Yes X No	Depth (inches):	18				
Saturation Present?	Yes X No	Depth (inches):	16	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)							
Describe Described Date (-t	vall parial phatas prov	iaa imamaatiana) i	f			
Describe Recorded Data (stream gauge, monitoring v	eii, aeriai photos, prev	lious inspections), i	avallable:			
Remarks:							
•							

VEGETATION - Use scientific names of plants.				Sampling Point: 017-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That Aic OBE, FAOW, OF FAO.
1. Betula alleghaniensis / Yellow birch	40	Yes	FAC	Total Number of Dominant
Tsuga canadensis / Eastern hemlock	10	Yes	FACU	Species Across All Strata: 4 (B)
3.		_		
4	. ———	-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75.0 (A/B)
6		_		Bernalana Inday walkahagi
7				Prevalence Index worksheet:
	50	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 45 x 1 = 45
1.				FACW species 70 x 2 = 140
2.				FAC species 40 x 3 = 120
3				FACU species 10 x 4 = 40
4.			<u> </u>	UPL species 0 x 5 = 0
5.				Column Totals:165 (A)345 (B)
•				Prevalence Index = B/A = 2.09
7				
1.	0	= Total Cov		Hydrophytic Vegetation Indicators:
Harb Chrotium (Diet einer E		_ = 10(a) C0V	CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	45		0.01	X 2 - Dominance Test is >50%
Myosotis scorpioides / Forget me not, Water forget-me-not	45	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
2. Lysimachia nummularia / Moneywort, Creeping-jenny	30	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Impatiens capensis / Spotted jewelweed	20	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Onoclea sensibilis / Sensitive fern	10	No	FACW	
5. Polygonum virginianum / Jumpseed	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
6				
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation Strata
10				Tree Mondy plants 2 in (7.6 am) as more in diameter at
10 11	· 		- 	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				
12	115	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Mandy Vine Charter (Diet eine	115	_ = 10tal C0V	EI	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1	. ———	_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3			<u> </u>	height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 017-1W

Depth	Matrix	ne aeptn ne	eded to document th Redo:	ne indicator x Features	or confirm	the abse	nce of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 2/2	100	(e.e.y		.,,,,		Sandy mucky r	Tioa.
<u> </u>								
¹Type: C=Conc	entration, D=Depletio	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		² Location	on: PL=Pore Lining, M=Matrix.
Hydric Soil Ind	dicators:						Indicators f	or Problematic Hydric Soils³:
Histosol (A			Polyvalue Belov	w Surface (S8	B) (LRR R ,	MLRA 14		luck (A10) (LRR K, L, MLRA 149B)
Histic Epip	pedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coast F	Prairie Redox (A16) (LRR K, L, R)
Black Histi	ic (A3)		Loamy Mucky N				5 cm M	lucky Peat or Peat (S3) (LRR K, L, R)
X Hydrogen	Sulfide (A4)		Loamy Gleyed I	Matrix (F2)				urface (S7) (LRR K, L)
Stratified L	_ayers (A5)		Depleted Matrix	(F3)			Polyval	ue Below Surface (S8) (LRR K, L)
Depleted F	Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin Da	ark Surface (S9) (LRR K, L)
Thick Dark	k Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Ma	anganese Masses (F12) (LRR K, L, R)
X Sandy Mu	cky Mineral (S1)		Redox Depress	ions (F8)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)						Mesic S	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Red	dox (S5)						Red Pa	rent Material (F21)
Stripped M	Matrix (S6)						Very SI	nallow Dark Surface (TF12)
Dork Sunfa	ace (S7) (LRR R, ML	RA 149B)					Other (Explain in Remarks)
Dark Sults	(, (,	,						,
			t hydrology must be n	recent unles	e dieturbad	or proble		
3Indicators of hy	ydrophytic vegetation		d hydrology must be p	resent, unles	s disturbed	or proble		
³Indicators of hy			d hydrology must be p	resent, unles	s disturbed	or proble		
alndicators of hy Restrictive Lay Type:	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³Indicators of hy	ydrophytic vegetation yer (if observed):		I hydrology must be p	resent, unles	s disturbed	or proble		
alndicators of hy Restrictive Lay Type:	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
³ Indicators of hy Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or proble	matic.	
Restrictive Lay Type: Depth (inch	ydrophytic vegetation yer (if observed):		d hydrology must be p	resent, unles	s disturbed	or problem	matic.	

Project/Site:	19020 - South Ripley	Ci	ity/County:	Chautauqua	County	Sampling Date:	07/01/2020
Applicant/Owner:		ConnectGen LLC			ate: New York		018-1U
Investigator(s):	MS, SPF	Se	ection, Township, F			wn of Ripley	
Landform (hillslope, terrace,	etc): Hillslope		f (concave, convex		Convex	Slope	(%): 5
Subregion (LRR or MLRA):	· -		•		-79.665606		` '
Soil Map Unit Name:		Erie silt loam			NWI classification	on:	
Are climatic / hydrologic con	ditions on the site typical for	this time of year? Ye	es X N	lo (If no,	_ , explain in Remark	(S.)	
Are Vegetation , S	oil X , or Hydrology	X significantly di	isturbed?	Are "Normal Cir	cumstances" prese	ent? Yes	K No
	oil , or Hydrology			(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FINDI	NGS - Attach site may	showing sampl	ing point loca	tions, transec	cts, important	features, etc.	
Hydrophytic Vegetation Pi		No X		mpled Area	•		
Hydric Soil Present?	Yes	No X		Wetland?	Yes	No X	
Wetland Hydrology Prese		No X	-	tional Wetland Site			=
			,,				
Remarks: (Explain alterna Fill area fron	ative procedures here or in a n ag road	separate report.)					
HYDROLOGY							
Wetland Hydrology India	catore:						
	um of one required; check a	Il that apply)			Socondary India	ators (minimum of t	wo roquirod)
Surface Water (A1)	uni oi one required, check a	Water-Stained Lo	93V95 (R0)			I Cracks (B6)	wo required)
High Water Table (A2	2)	Aquatic Fauna (E	,			atterns (B10)	
Saturation (A3)	-)	Marl Deposits (B	•		Moss Trim I		
Water Marks (B1)		Hydrogen Sulfide	,			Water Table (C2)	
Sediment Deposits (I	B2)		pheres on Living R	Roots (C3)	Crayfish Bu		
Drift Deposits (B3)	,	Presence of Red		(00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	34)		uction in Tilled Soi	ils (C6)		Stressed Plants (D1	
Iron Deposits (B5)	• ,	Thin Muck Surfa		()		Position (D2)	,
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in	` '		Shallow Aqu		
	Concave Surface (B8)	_ ` `	,			aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations:	Yes No	V Donth (inches)					
Surface Water Present? Water Table Present?	Yes No Yes No						
Saturation Present?				Wotland Hyd	Irology Procent?	Voc	No. V
(includes capillary fringe)	Yes No	X Depth (inches):	•	vvetianu nyu	Irology Present?	Yes	No X
(includes capillary liftige)							
Describe Recorded Data	(stream gauge, monitoring w	ell, aerial photos, prev	rious inspections),	if available:			
Remarks:							

Absolute Dominant Indicator Number of Dominant Species Number of Dominant	VEGETATION - Use scientific names of plants.				Sampling Point: 018-1U
Total Number of Dominant Species 3		Absolute	Dominant	Indicator	Number of Dominant Species
2.	Tree Stratum (Plot size:)	%Cover	Species?	Status	, `,
3					Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)	2				Species Across All Strata: 4 (B)
That Are OBL, FACW, or FAC:	· · · · · · · · · · · · · · · · · · ·				
6. 7	···				•
Prevalence Index worksheet: Total Cover					That Are OBL, FACW, or FAC: 0.0 (A/B)
Total & Cover of:					Prevalence Index worksheet:
Sapiling/Shrub Stratum	<i>1</i>		= Total Cov		
Prunus pensylvanica / Pin cherry	Sanling/Shrub Stratum (Plot size: 15)		10(a) 00.	CI	
2.		10	Yes	FACU	FACW species 0 x 2 = 0
10					
4.	3.				<u> </u>
Column Totals:					
6.	5				
Herb Stratum (Plot size: 5) 10 = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index ≤ 3.0	0				Prevalence Index = B/A = 4.0
Herb Stratum	7				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 5 5 5 5 5 6 5 5 6 5 6 5 6 6		10	_ = Total Cov	er	
1. Lotus corniculatus / Bird's foot trefoil. Bird's-foot trefoil 20 Yes FACU 2. Bellis perennis / English lawn daisy. English daisy 3. Solidago canadensis / Canada goldenrod 4. Sisyrinchium / Blue-eyed grass 10 No 5.		20		~. ~	
2. Bellis perennis / English lawn daisy, English daisy 3. Solidago canadensis / Canada goldenrod 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Yes NoX				FACU	
3. Solidago canadensis / Canada goldenrod 4. Sisyrinchium / Blue-eyed grass 5.					
4. Sisymnchium / Bilbe-eyed grass 10 No "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 12. Woody vines - All woody vines greater than 3.28 ft in height. 13. Hydrophytic Vegetation Present? Yes No X				_ FACU	
6.	5				
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata	^				¹ Indicators of hydric soil and wetland hydrology must
8					be present, unless disturbed or problematic.
9.	0				- 0 W 4-4- 04-4-
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes No _X	0				Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property is a size of the property o					T Moody plants 2 in (7.6 cm) or more in diameter at
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:	11.				
Woody Vine Stratum (Plot size:30) 1	12.		_		
Woody Vine Stratum (Plot size:30) 1		65	= Total Cov	/er	
2	4		_		Herb - All herbaceous (non-woody) plants, regardless of
3	2				
4	3.				
Vegetation Present? Yes NoX	4.	 	<u>- </u>		
Present? Yes No X		0	_ = Total Cov	er er	
Remarks: (Explain alternative procedures here or in a separate report.)					Present? Yes No X
· · · · · · · · · · · · · · · · · · ·	Remarks: (Explain alternative procedures here or in a separat	te report.)			1

SOIL
Sampling Point: 018-1U
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox	Features							
	Color (moist)	%	Color (moist)		Type ¹	Loc²	Texture		Rema	rks	
0-1	10 yr 5/4	100	, ,				Sand	Fill			
				- <u></u>							
				<u> </u>							
Type: C=Cond	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ked Sand Grains	S		²Loca	ation: PL=P	ore Lining, I	M=Matrix.	
lydric Soil In	dicators:						Indicators	s for Proble	ematic Hyd	ric Soils	
Histosol (Polyvalue Below	(Surface (S8)	/I PP P M	I RA 149F) (LRR K, I		
	pedon (A2)		Thin Dark Surfa					•	dox (A16)	•	•
		•	Loamy Mucky M			1490)			at or Peat (S	-	
Black His	Sulfide (A4)	•	Loamy Gleyed N		r., L <i>)</i>			•	7) (LRR K	, .	ιν, ⊾, ιν)
	Layers (A5)	•	Depleted Matrix					-	Surface (S	-	K I)
_	Below Dark Surface (A	.11\	Redox Dark Sur						ce (S9) (LF		rx, L)
	k Surface (A12)		Depleted Dark S						: Masses (F		
	ucky Mineral (S1)	•	Redox Depressi					-	olain Soils (
	eyed Matrix (S4)	•	Nedox Deplessi	ons (i o)					A6) (MLR /		
Sandy Re								Parent Mat		· 1770, 1	43, I43L
	Matrix (S6)								rk Surface	(TE12)	
	ace (S7) (LRR R, ML	DA 140D)							n Remarks)	(1112)	
Daik Suii	ace (SI) (LKK K, WL	KA 149D)					Othe	i (Expiaiii ii	i Keiliaiks)		
Indicators of h	nydrophytic vegetation	and wetland	hydrology must be pi	resent, unless d	isturbed o	r problema	atic.				
Dootsietive Le											
Restrictive La	yer (if observed):										
Type:							Hydric Soil P	resent?	Yes	N	o <u>X</u>
Type: Depth (inc											
Depth (inc											
Depth (inc		tiple locations	s								
Depth (inc	hes):	tiple locations	s								
Depth (inc	hes):	tiple locations	s								
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Depth (inc	hes):	tiple locations	s								

Project/Site:	19020 - South Ripley		City/County:	Chautaugua	County	Sampling Date:	07/01/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>		tate: New York	-	018-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Towns			vn of Ripley	
Landform (hillslope, terrace	•				Concave		(%): 0-5
Subregion (LRR or MLRA):				333 Long:			`
Soil Map Unit Name:					NWI classification		PEM
Are climatic / hydrologic cor				No (If no			
, ,	Soil, or Hydrology	•	y disturbed?		cumstances" prese	,	(No
	Soil , or Hydrology				ain any answers in		<u> </u>
				•	•	•	
SUMMARY OF FINDI	NGS - Attach site ma			locations, transet	cts, important	reatures, etc.	
Hydrophytic Vegetation P	resent? Yes	X No		ne Sampled Area			
Hydric Soil Present?	Yes	X No	with	nin a Wetland?	Yes X	No	_
Wetland Hydrology Prese	ent? Yes	X No	If ye	es, optional Wetland Sit	e ID:	Wetland 18	
	ative procedures here or in a eld, fed by drainage tiles	a separate report.)					
HYDROLOGY							
	4						-
Wetland Hydrology Indi		- II 4l 4 l- A			0	(m.)	
	num of one required; check a		-l.l (DO)			tors (minimum of t	wo requirea)
Surface Water (A1)	0)		d Leaves (B9)			Cracks (B6)	
High Water Table (A	2)	Aquatic Faun			X Drainage Pa		
Saturation (A3)		Marl Deposits			Moss Trim L	` '	
Water Marks (B1)	'DO\		Ifide Odor (C1)	ing Doots (C2)		Water Table (C2)	
Sediment Deposits (B2)	X Oxidized Rhiz	•		Crayfish Bur		(CO)
Drift Deposits (B3)	24)		Reduced Iron (C	,		isible on Aerial Ima	
Algal Mat or Crust (E	34)		Reduction in Tille	ed Solis (Co)		Stressed Plants (D1)
Iron Deposits (B5)	A a vial Image way (D7)	Thin Muck Su			X Geomorphic		
1 	n Aerial Imagery (B7)	Other (Explai	n in Remarks)		Shallow Aqu	` ,	
Sparsely vegetated	Concave Surface (B8)				X Microtopogra		
					X FAC-Neutra	rest (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	es):				
Water Table Present?	Yes No	X Depth (inch					
Saturation Present?	Yes No	X Depth (inch	es):	Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fringe)					3,		
()))))							
Describe Recorded Data	(stream gauge, monitoring v	well, aerial photos, p	revious inspecti	ons), if available:			
Remarks:							

Absolute Dominant Indicator Number of Dominant Species Satus	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	Absolute Dominant Indicator Species Salaus Total Number of Dominant Species Salaus Total Number of Dominant Species Salaus Total Number of Dominant Species Species Across All Strata: 2 (B) Species Species Across All Strata: 2 (B) Species	VEGETATION - Use scientific names of plants.				Sampling Point: 018-1W
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 2 (A)	Absolute	Absolute					Dominance Test worksheet:
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 2 (B) Across All Acro	Tree Stratum	Tree Stratum					Number of Dominant Species
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 2 (B) Species Ac	Tree Stratum	Tree Stratum		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata: 2 (B) 3	Total Number of Dominant Species Across All Strats: 2 (B) 3.	Total Number of Dominant Species Across All Strats: 2 (B) 3.	Tree Stratum (Plot size: 30)				That Aic Obe, I Aovi, Si I Ao.
Species Across All Strata: 2 (B)	Species Across All Stratus 2 (B) 3	Species Across All Stratus 2 (B) 3		700010.	ороског.	Otatao	Total Number of Dominant
3	A	A	•		_		
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	## Percent of Dominant Species ## That Are OBL, FACW, or FAC:	## Percent of Dominant Species ## That Are OBL, FACW, or FAC:					Species Across Air Strata.
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				5 (5) (5)
Prevalence Index worksheet: Total '% Cover of:	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x1 = 25 25 25 25 25 25 25 25	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x1 = 25 25 25 25 25 25 25 25	···				·
Prevalence Index worksheet: Total % Cover of: Multiply by: DBL species 25 x1 = 25 FACW species 50 x2 = 100 FACW species 50 x4 = 20 PCW species 50 x4	Prevalence Index worksheet: Total Cover Sapling/Shrub Stratum (Plot size: 15)	Prevalence Index worksheet: Total Cover Sapling/Shrub Stratum (Plot size: 15)					That Are OBL, FACW, or FAC: 100.0 (A/B)
Total Cover Total Cover Total Cover Total Cover Sapling/Shrub Stratum (Plot size: 15)	Total & Cover of: Multiply by:	Total & Cover of: Multiply by:					Presidence Index workshoots
Saping/Shrub Stratum (Plot size: 15 15 15 15 15 10 10 15 15	Saping/Shrub Stratum (Plot size: 15)	Saping/Shrub Stratum (Plot size: 15)	7				
FACW species 50 x 2 = 100	1. 2. 3. 4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 40 Yes FACW 2. Typha latifolia / Broadleat cattail, Broad-leaved cattail 20 Yes OBL 5. Solidago rangosa / Winkle-leaf goldenrod 15 No FACW 5. Solidago randensis / Canada goldenrod 5 No FACU 5. Solidago canadensis / Canada goldenrod 5 No FACU 7. 8. 9. 10. 11. 12. 95 = Total Cover	1. 2. 3. 4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 40 Yes FACW 2. Typha latifolia / Broadleat cattail, Broad-leaved cattail 20 Yes OBL 5. Solidago rangosa / Winkle-leaf goldenrod 15 No FACW 5. Solidago randensis / Canada goldenrod 5 No FACU 5. Solidago canadensis / Canada goldenrod 5 No FACU 7. 8. 9. 10. 11. 12. 95 = Total Cover		0	_ = Total Cov	er	
2. 3. 4. 5. 6. 7. 8. 9. 1. Phalans arundinacea / Reed canary grass / 2. Typha lathfold / 15 No FAC / 2. Dominance Test is 50% / 3. Prevalence Index = B/A = 0. 0. Definitions of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. 8. 9. 10. 10. 11. 11. 12. 10. 11. 12. 11. 12. 11. 12. 13. 14. 15. 16. 17. 18. 18. 19. 10. 11. 11. 12. 15. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 3. Solidago ngosa / Wrinkle-leaf goldenrod 4. Eupatorium perfolatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 6. Solidago canadensis / Canada goldenrod 7. 8. 9. 10. 11. 12. 95. 17. 18. 95. 18. 19. 10. 11. 12. 95. 10. 10. 11. 11. 12. 10. 11. 12. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 19. 19. 10. 11. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 3. Solidago ngosa / Wrinkle-leaf goldenrod 4. Eupatorium perfolatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 6. Solidago canadensis / Canada goldenrod 7. 8. 9. 10. 11. 12. 95. 17. 18. 95. 18. 19. 10. 11. 12. 95. 10. 10. 11. 11. 12. 10. 11. 12. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 19. 19. 10. 11. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Sapling/Shrub Stratum (Plot size: 15)				
2.	2.	2.	1				
A	3.	3.					
4.	A	A	3.				
Column Totals: 95 (A) 190 (B)	6. Colum Totals: 95 (A) 190 (B) Prevalence Index = B/A = 2.0 Colum Totals: 95 (A) 190 (B) Prevalence Index = B/A = 2.0	6. Colum Totals: 95 (A) 190 (B) Prevalence Index = B/A = 2.0 Colum Totals: 95 (A) 190 (B) Prevalence Index = B/A = 2.0					UPL species 0 x 5 = 0
Prevalence Index = B/A = 2.0	Prevalence Index = B/A = 2.0	Prevalence Index = B/A = 2.0					Column Totals:95 (A)190 (B)
7. Herb Stratum (Plot size: 5)	Total Coverage Factor Fa	Total Coverage Factor Fa	•				Prevalence Index = B/A = 2.0
Phalaris arundinacea / Reed canarygrass, Reed canary gras 40 Yes FACW	D = Total Cover Stratum (Plot size: 5 5 5 5 5 5 5 5 5 5	D = Total Cover Stratum (Plot size: 5 5 5 5 5 5 5 5 5 5					
Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)	1.		T-tal Cau		Hydrophytic Vegetation Indicators:
Plefs Stratum (Plot size: 5)	Plefo Stratum (Plot size: 5)	Plefo Stratum (Plot size: 5)		U	_ = lotal Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Eupatorium perfoliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7. Solidago canadensis / Canada goldenrod 5. No FACU 7. Solidago canadensis / Canada goldenrod 7. Solidago canadensis / Canada gol	1. Phalaris arundinacea / Reed canarygrass, Reed canarygrass 40 Yes GBL 2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Eupatorium perfoliatum / Common boneset 10 No FAC 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 6. Solidago canadensis / Canada goldenrod 5. No FACU 7.	1. Phalaris arundinacea / Reed canarygrass, Reed canarygrass 40 Yes GBL 2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Eupatorium perfoliatum / Common boneset 10 No FAC 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 6. Solidago canadensis / Canada goldenrod 5. No FACU 7.					1 -
2. Typna lattional Broadlear cattalli, Broad-leaved cattalli 20 Yes OBL 3. Solidago rugosa / Wrinkle-leaf goldenrod 15 No FACW 4. Eupatorium perfoliatum / Common boneset 10 No FACW 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5 No OBL 6. Solidago canadensis / Canada goldenrod 5 No FACU 7.	2. Typna latifolia / Broadleaf cattali, Broad-leaved cattali 2. Typna latifolia / Broadleaf cattali, Broad-leaved cattali 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Eupatorium perfoliatum / Common boneset 10. No FACW 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7. B. Solidago canadensis / Canada goldenrod 5. No FACU 7. Solidago canadensis / Canada goldenrod 7. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft tall. 9. Solidago canadensis / Canada goldenrod 8. Solidago canadensis / Canada goldenrod 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 9. Woody vines - All woody vines greater than 3.28 ft in height. 9. Hydrophytic 9. Vegetation 9. Present? Yes X No	2. Typna latifolia / Broadleaf cattali, Broad-leaved cattali 2. Typna latifolia / Broadleaf cattali, Broad-leaved cattali 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Eupatorium perfoliatum / Common boneset 10. No FACW 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7. B. Solidago canadensis / Canada goldenrod 5. No FACU 7. Solidago canadensis / Canada goldenrod 7. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft tall. 9. Solidago canadensis / Canada goldenrod 8. Solidago canadensis / Canada goldenrod 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 9. Woody vines - All woody vines greater than 3.28 ft in height. 9. Hydrophytic 9. Vegetation 9. Present? Yes X No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
3. Solidago rugosa / Wrinkle-leat goldenrod 4. Eupatorium perfoliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7. OBL 8. OBL 9. OBL 10. OBL 11. OBL 11. OBL 11. OBL 11. OBL 12. OBL 14. OBL 15. No FACU 16. Solidago canadensis / Canada goldenrod 5. No FACU 7. OBL 17. OBL 18. OBL 19. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of neight. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	3. Solidago rugosa / Wrinkle-lear goldenrod 4. Eupatorium perfoliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7.	3. Solidago rugosa / Wrinkle-lear goldenrod 4. Eupatorium perfoliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7.	2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail	20	Yes	OBL	
4. Eupatonium perioliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 7. Solidago canadensis / Canada goldenrod 7. Definitions of Vegetation Strata 9.	4. Eupatorium perroliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 6. Solidago canadensis / Canada goldenrod 7. 8. Definitions of Vegetation Strata 9. 10. 11. 12. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	4. Eupatorium perroliatum / Common boneset 5. Carex vulpinoidea / Fox sedge, Brown fox sedge 5. No OBL 6. Solidago canadensis / Canada goldenrod 7. 8. Definitions of Vegetation Strata 9. 10. 11. 12. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	3. Solidago rugosa / Wrinkle-leaf goldenrod	15	No	FAC	
5. Carex vulpinoidea / Fox sedge, Brown fox sedge 6. Solidago canadensis / Canada goldenrod 5 No FACU 7. 8.	5. Carex vulpinoidea / Fox sedge, Brown fox sedge 6. Solidago canadensis / Canada goldenrod 5 No FACU 7. 8.	5. Carex vulpinoidea / Fox sedge, Brown fox sedge 6. Solidago canadensis / Canada goldenrod 5 No FACU 7. 8.	4. Eupatorium perfoliatum / Common boneset	10	No	FACW	Problematic Hydrophytic vegetation: (Explain)
6. Solidago canadensis / Canada goldenrod 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size:	Solidago canadensis / Canada goldenrod 5 No FACU Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	Solidago canadensis / Canada goldenrod 5 No FACU Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	· · · · · · · · · · · · · · · · · · ·	5	No	OBL	
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata	be present, unless disturbed or problematic. Definitions of Vegetation Strata	be present, unless disturbed or problematic. Definitions of Vegetation Strata					
Definitions of Vegetation Strata	8	8					be present, unless disturbed or problematic.
9.	9. 10. 11. 12. 95 = Total Cover 15. 16. 17. 16. 17.	9. 10. 11. 12. 95 = Total Cover 15. 16. 17. 16. 17.	1.				
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No					Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation					
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	10				
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:	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)	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)	11				breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	12.		_		Sapling/shrub - Woody plants less than 3 in. DBH and
1	1	1		95	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
1	1	1	Woody Vine Stratum (Plot size:)	_	_		Herb - All herbaceous (non-woody) plants, regardless of
2	2	2					
3	3	3	3				1
4	4	4	3				
0 = Total Cover	0 = Total Cover Hydrophytic Vegetation Present? Yes X No	0 = Total Cover Hydrophytic Vegetation Present? Yes X No	J	-	_		neight.
Vegetation Present? Yes X No	Vegetation Present? Yes X No	Vegetation Present? Yes X No	4.		- Total Cov		Lichanhidia
Present? YesX No	Present? Yes X No	Present? Yes X No			_ = 10181 COV	er	
	Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					Present? Yes X No
	Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					

SOIL Sampling Point: 018-1W

Depth	Matrix			k Features			nce of indicator	,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-3	10YR 2/1	100					Clayey loam	
3-18	10YR 2/1	60	10YR 5/2	30	D	M	Clayey loam	
3-18			5YR 4/6	10	C	M	Clayey loam	
				_	·			
					· —— ·			
		· ——		<u> </u>	. —— .			-
					· ·			
				_	· —— ·			
				_				
ype: C=Cond	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=Pore Lining, M=Matrix.
dric Soil In	dicators:						Indicators	s for Problematic Hydric Soils ³ :
Histosol (Polyvalue Belov	v Surface (S	8) (LRR R.	MLRA 149		Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	•				t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			,		Mucky Peat or Peat (S3) (LRR K, L, R)
- Hydrogen	Sulfide (A4)		Loamy Gleyed I					Surface (S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyv	value Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Redox Dark Sur	face (F6)			Thin	Dark Surface (S9) (LRR K, L)
Thick Dar	k Surface (A12)		Depleted Dark S	Surface (F7)			Iron-l	Manganese Masses (F12) (LRR K, L, R
Sandy Mu	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Floodplain Soils (F19) (MLRA 149B
Sandy Gl	eyed Matrix (S4)						Mesic	c Spodic (TA6) (MLRA 144A, 145, 149B
_ Sandy Re	edox (S5)						Red I	Parent Material (F21)
	Matrix (S6)						Very	Shallow Dark Surface (TF12)
Dark Surf	ace (S7) (LRR R, MI	LRA 149B)					Other	r (Explain in Remarks)
			l hydrology must be n	resent. unle	ss disturbed	or proble	matic.	
ndicators of h	nydrophytic vegetation	i and wetiand		,		•		
	nydrophytic vegetation	and wetland	- Trydrology must be p					
estrictive La	yer (if observed):							
estrictive La	yer (if observed):						Hydric Soil P	Procent? Yes Y No
estrictive La	yer (if observed):						Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes <u>X</u> No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (incl	yer (if observed):						Hydric Soil P	Present? Yes X No
estrictive La Type: Depth (inc	yer (if observed):						Hydric Soil P	Present? Yes X No

Project/Site:	19020 - South Ripley	City/County:	Chautaugua Cou	untv	Sampling Date:	07/01/2020
Applicant/Owner:		ctGen LLC			Sampling Point:	019-1U
Investigator(s):	MS, SPF	Section, Townsh			wn of Ripley	
Landform (hillslope, terrace, etc.	·	Local relief (concave, con	• —	Convex	Slope	(%): 6
Subregion (LRR or MLRA):	LRR R MLRA 139	Lat: 42.180100	· —	-79.6667124		` '
Soil Map Unit Name:		dakoin silt loam		NWI classification		
	ons on the site typical for this tin	ne of year? Yes X	No (If no, ex	plain in Remark	(s.)	
Are Vegetation X , Soil	X , or Hydrology	significantly disturbed?	Are "Normal Circun			X No
·	, or Hydrology		(If needed, explain	any answers in	Remarks.)	
	SS - Attach site map sho		·	-	·	
Hydrophytic Vegetation Pres			Sampled Area	<u>, </u>		
Hydric Soil Present?			n a Wetland?	Yes	No X	
Wetland Hydrology Present?			, optional Wetland Site ID		NOX	_
Wettand Trydrology 1 resent:		TVO X	, optional victiand offerin	,		_
Remarks: (Explain alternative Ag Road and fil	e procedures here or in a separa I	ate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
	of one required; check all that a	ipply)	S	econdary Indica	ators (minimum of t	wo required)
Surface Water (A1)	V	Vater-Stained Leaves (B9)			l Cracks (B6)	
High Water Table (A2)	<u> </u>	quatic Fauna (B13)	_	Drainage Pa	atterns (B10)	
Saturation (A3)	<i>N</i>	1arl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)	F	lydrogen Sulfide Odor (C1)	_	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	C	xidized Rhizospheres on Livi	ng Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	F	resence of Reduced Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	F	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D1	1)
Iron Deposits (B5)	Т	hin Muck Surface (C7)	_	Geomorphic	Position (D2)	
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Remarks)	_	Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor	ncave Surface (B8)		_		aphic Relief (D4)	
			_	FAC-Neutra	l 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 Hydrol	ogy Present?	Yes	No X
(includes capillary fringe)		. , ,	_	0.5		
Describe Recorded Data (str	eam gauge, monitoring well, aei	rial photos, previous inspection	ns), if available:			
Remarks:						
Tromanic.						
ı						

VEGETATION - Use scientific names of plants.				Sampling Point: 019-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Abcoluto	Dominant	Indicator	·
T 01 1 (DI 1)	Absolute	Dominant		That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Ostrya virginiana / Eastern hop-hornbeam	15	Yes	FACU	Total Number of Dominant
Tsuga canadensis / Eastern hemlock	10	Yes	FACU	Species Across All Strata: 5 (B)
3. Prunus pensylvanica / Pin cherry	10	Yes	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
-			· ——	(100)
-		- -		Prevalence Index worksheet:
7			· 	
	35	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.		-		FAC species 0 x 3 = 0
3				FACU species 80 x 4 = 320
3.				UPL species 0 x 5 = 0
4				Column Totals: 80 (A) 320 (B)
5				
6				Prevalence Index = B/A = 4.0
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
	00		E4.011	2 - Dominance Test is >50%
Trifolium repens / White clover	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Plantago major / Common plantain	15	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3.				
4.				Problematic Hydrophytic Vegetation¹ (Explain)
E			-	
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10	-		-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
		-		
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	45	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.	-		-	Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4		-		noight.
4				Hadron bade
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

Depth	Matrix		Redox	k Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Re	emarks
0-6	10YR 3/3	100					Sandy loam		
	-								
									_
	-	· —— ·							
	-	· ·							
		· -							
		· —— ·							
	-	. <u> </u>							
¹Type: C=Con	centration, D=Depletion	on, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Locatio	n: PL=Pore Lini	ing, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators fo	or Problematic	Hydric Soils3:
Histosol			Polyvalue Belov	v Surface (S8	3) (LRR R.I	MLRA 149			K, L, MLRA 149B)
	ipedon (A2)	•	Thin Dark Surfa						16) (LRR K, L, R)
Black His			Loamy Mucky M			1400)			at (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed					ucky Feat of Fe irface (S7) (LR	
									-
	Layers (A5)		Depleted Matrix						ce (S8) (LRR K, L)
	Below Dark Surface (A11)	Redox Dark Sui					rk Surface (S9)	
	rk Surface (A12)		Depleted Dark S					-	es (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depress	ions (F8)					oils (F19) (MLRA 149B)
	leyed Matrix (S4)								ILRA 144A, 145, 149B)
Sandy R	edox (S5)							rent Material (F2	
Stripped	Matrix (S6)						Very Sh	allow Dark Surfa	ace (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other (E	Explain in Rema	rks)
									
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problen	natic.		
						·			
Restrictive La	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Pres	sent? Yes	No X
	· .					ļ			
Remarks:									
F	Full refusal at 6								

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautauqu	a County	Sampling Date: 07/01/2020
Applicant/Owner:	' '	nectGen LLC	·	State: New York	
Investigator(s):	Matt Spadoni & Sam Parker		Township, Range:		n of Ripley
Landform (hillslope, terrace, e			ave, convex, none):	Concave	. ,
Subregion (LRR or MLRA):			18010117 Long:		
Soil Map Unit Name:		Chadakoin silt loam		NWI classificatio	
· · · · · · · · · · · · · · · · · · ·	tions on the site typical for this		X No (If n	no, explain in Remarks	
, ,	il, or Hydrology			Circumstances" preser	
	il , or Hydrology			plain any answers in l	
				•	·
SUMINIART OF FINDIN	GS - Attach site map s		oint locations, transc	ects, important i	eatures, etc.
Hydrophytic Vegetation Pre	sent? Yes X	No	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No
Wetland Hydrology Present	? Yes X	No	If yes, optional Wetland S	Site ID:	Wetland 19
Dama alla (Francia alta manti					
Remarks: (Explain alternati	ve procedures here or in a sep	arate report.)			
HYDROLOGY					
Watland Hydrology Indias	itoro:				
Wetland Hydrology Indica		at annius)		Casandan Indias	tore (minimum of two required)
-	m of one required; check all th		DO)		tors (minimum of two required)
Surface Water (A1)		Water-Stained Leaves (Б9)	X Surface Soil	,
High Water Table (A2)		Aquatic Fauna (B13)		X Drainage Pa	· ·
Saturation (A3)		Marl Deposits (B15)	(04)	Moss Trim Li	` '
Water Marks (B1)		Hydrogen Sulfide Odor			Water Table (C2)
Sediment Deposits (B)	<u></u>	Oxidized Rhizospheres	· · ·	Crayfish Bur	
Drift Deposits (B3)		Presence of Reduced Ir	` ,		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4		Recent Iron Reduction i	, ,		tressed Plants (D1)
Iron Deposits (B5)	 	Thin Muck Surface (C7)		X Geomorphic	
Inundation Visible on A	<u> </u>	Other (Explain in Rema	rks)	Shallow Aqu	
Sparsely Vegetated Co	oncave Surface (B8)			X Microtopogra	
				X FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	Yes No X	Donth (inches):			
Water Table Present?	Yes No X Yes No X	_ ' '			
Saturation Present?	Yes No X	– · · · —	Wetland U	ydrology Present?	Yes No X
	res NOX	Depth (inches):	welland ny	yurology Present?	Yes NoX
(includes capillary fringe)					
Describe Recorded Data (s	tream gauge, monitoring well,	aerial photos, previous in	spections) if available:		
Describe Recorded Data (5	arcain gaage, monitoring wen,	acriai priotos, previoas in	opeoliono), ii avaliabie.		
Remarks:					

1	ize:30				_	
1	ize: <u>30</u>					Dominance Test worksheet:
1	ize: 30					Number of Dominant Species
1	ize:30		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
1	size. <u>50</u>	١	%Cover	Species?	Status	Illat Ale Obl., FAOW, OI FAO
2. 3. 4.			7000vci	Species	Status	T-t-I Number of Dominant
3. 4. 5.						Total Number of Dominant
5.						Species Across All Strata: 3 (B)
5.						
						Percent of Dominant Species
•						That Are OBL, FACW, or FAC: 100.0 (A/E
j						
7						Prevalence Index worksheet:
			0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum	(Plot size:	15)		_		OBL species 65 x 1 = 65
·						FACW species 10 x 2 = 20
2.						FAC species 20 x 3 = 60
1						FACU species 0 x 4 = 0
						UPL species 0 x 5 = 0
						Column Totals: 95 (A) 145 (I
						Prevalence Index = B/A = 1.53
						1 TOTALON
·						Hydrophytic Vegetation Indicators:
			0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot si)				X 2 - Dominance Test is >50%
I. Carex lurida / Shallo			20	Yes	OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
2. Carex vulpinoidea /	Fox sedge, Brown fo	ox sedge	20	Yes	OBL	
3. Solidago rugosa / W			20	Yes	FAC	4 - Morphological Adaptations (Provide supporting
Scirpus atrovirens /	-		15	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
5. <i>Carex squarrosa /</i> S			10	No	OBL	
6.	·		10	No No	FACW	¹ Indicators of hydric soil and wetland hydrology must
					FAUV	be present, unless disturbed or problematic.
7						
8				_		Definitions of Vegetation Strata
9						
10						Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.						breast height (DBH), regardless of height.
12.						Sapling/shrub - Woody plants less than 3 in. DBH and
				= Total Cov	·or	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum	(Plot size:	30)		10	Ci	. , ,
1.	(FIUL 3126.	, ,				Herb - All herbaceous (non-woody) plants, regardless of
-						size, and woody plants less than 3.28 ft tall.
2.						Woody vines - All woody vines greater than 3.28 ft in
3						height.
4						
			0	_ = Total Cov	er	Hydrophytic
				_		Vegetation
						Present? Yes X No
Remarks: (Explain alte						

SOIL Sampling Point: 019-1W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	S
0-14	10YR 2/1	100			· <u></u>		Clayey loam			
14-18	10YR 5/1	80	10YR 6/8	20	С	М	Clay			
					· <u></u>					
					· <u></u>					
				_						
					·					
	-									
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	=Matrix.
							l	for Doole		- 0-11-3-
Hydric Soil I				0 ((0	o)				ematic Hydric	
Histosol			Polyvalue Belov) (LRR K, L, I	
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (L	
	istic (A3)		Loamy Mucky N		(LRR K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					-	7) (LRR K, L	-
	d Layers (A5)		X Depleted Matrix						v Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Su						ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark					ū	•	(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									144A, 145, 149B)
	Redox (S5)								erial (F21)	
	l Matrix (S6)								ark Surface (Ti	F12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wattend	bydrology must be n	rocent unles	a diaturbad	or problem	actio			
Indicators of		and wettand	mydrology mast be p	resent, unies	ss disturbed	or problem	iatio.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
tomanto.										

Project/Site:	19020 - South	Ripley	City/County:	Chautauqua	County	Sampling Date:	07/01/2020
Applicant/Owner:				· · · · · · · · · · · · · · · · · · ·	ate: New York		020-1U
Investigator(s):	Matt Spadoni & S		Section, Township			vn of Ripley	020 .0
Landform (hillslope, terrace			I relief (concave, conv		Convex	. ,	(%): 2-5
Subregion (LRR or MLRA)			42.18363647		-79.7022947		` '
Soil Map Unit Name:					NWI classification		10.00
Are climatic / hydrologic co				No (If no,	_		
, ,	,	rologysignifica			cumstances" prese		. No
		rologysignification			ain any answers in		
					•	•	
SUMMARY OF FIND	ings - Attach sh	e map snowing sa	impling point loc	cations, transec	cts, important	reatures, etc.	
Hydrophytic Vegetation I	Present? Y			Sampled Area			
Hydric Soil Present?	Y	es NoX	within	a Wetland?	Yes	NoX	=
Wetland Hydrology Pres	ent? Y	es NoX	If yes,	optional Wetland Site	e ID:		
D 1 (5 1 : 11							
Remarks: (Explain alterr	native procedures here	or in a separate report.)				
HYDROLOGY							
	liantaur.						
Wetland Hydrology Ind					0 1 1 1		
Primary Indicators (minir			(D0)			ators (minimum of ty	wo requirea)
Surface Water (A1)			ned Leaves (B9)			Cracks (B6)	
High Water Table (A	1 2)	Aquatic Fa				atterns (B10)	
Saturation (A3)		Marl Depos			Moss Trim L	` '	
Water Marks (B1)			Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		hizospheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (B3)			of Reduced Iron (C4)			isible on Aerial Ima	
Algal Mat or Crust (B4)		n Reduction in Tilled S	Soils (C6)		Stressed Plants (D1)
Iron Deposits (B5)			Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible of	on Aerial Imagery (B7)	Other (Exp	lain in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	Concave Surface (B8	3)			Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations:	.,						
Surface Water Present?	Yes	No X Depth (inc		_			
Surface Water Present? Water Table Present?	Yes	No X Depth (inc	ches):	<u>-</u>			
Surface Water Present? Water Table Present? Saturation Present?	Yes		ches):	 Wetland Hyd	Irology Present?	Yes	No X
Surface Water Present? Water Table Present?	Yes	No X Depth (inc	ches):	— 	Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present?	Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X

Tree Stratum (Plot size:	Absolute %Cover			Dominance Test worksheet: Number of Dominant Species
Tree Stratum (Plot size:				
Tree Stratum (Plot size:				
Tree Stratum (Plot size:		Dominant	Indicator	·
1	%Cover			That Are OBL, FACW, or FAC: 0 (A)
2		Species?	Status	
3				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
4				
_				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
•				
7		- ——	- ——	Prevalence Index worksheet:
7		T +-1 Cov		Total % Cover of: Multiply by:
· · ·	0	_ = Total Cove	ər	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:)				· — — — — — — — — — — — — — — — — — — —
1				FACW species x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 95 x 4 = 380
				UPL species 0 x 5 = 0
				Column Totals: 95 (A) 380 (B)
5				、, 、,
6				Prevalence Index = B/A = 4.0
7.		·	<u> </u>	11 1 Ludi-Mondalan Indiadaya
	0	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			31	1 - Rapid Test for Hydrophytic Vegetation
	75	Vac	FACIL	2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	75	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Dactylis glomerata / Orchardgrass	20	No	FACU	4 - Morphological Adaptations (Provide supporting
3. <i>Vicia cracca /</i> Bird vetch	10	No		
4.		· -	· -	Problematic Hydrophytic Vegetation¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
7.				
8				Definitions of Vegetation Strata
9.				3
10.				*** When the plants 3 in (7.6 cm) or more in diameter at
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11 12				
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
		_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
<u></u>				size, and woody plants less than 3.28 ft tall.
2.		-		
			- ——	Woody vines - All woody vines greater than 3.28 ft in
3			_	height.
4				
	0	_ = Total Cove	er	Hydrophytic
		•		Vegetation
				Present? Yes No X
				1100iii.

SOIL Sampling Point: 020-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 4/4 100 Sandy loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ____ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/01/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>		tate: New York	-	020-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Townshi			vn of Ripley	
Landform (hillslope, terrace,					Concave		(%): 0-3
Subregion (LRR or MLRA):							` '
Soil Map Unit Name:				Long	NWI classification		PEM
Are climatic / hydrologic cond				No (If no	rww classification, explain in Remarks		LIVI
, ,	oil, or Hydrology	•	y disturbed?		rcumstances" prese	,	(No
	oil , or Hydrology				lain any answers in		<u> </u>
					•	•	
SUMMARY OF FINDIN	iGS - Attach Site ma			cations, transe	cts, important	reatures, etc.	
Hydrophytic Vegetation Pr	esent? Yes	X No		Sampled Area			
Hydric Soil Present?	Yes	X No	withir	a Wetland?	Yes X	No	_
Wetland Hydrology Preser	it? Yes	X No	If yes,	optional Wetland Sit	te ID:	Wetland 20	
Danasalas (Frantsia altamat							
Remarks: (Explain alternate	ive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indic	atore:						
		all theat amply (Coopedaniladiaa	tore (minimum of th	magninad)
Primary Indicators (minimu	im of one required; check a		d Lagres (DO)			tors (minimum of ty	wo required)
Surface Water (A1)	.		d Leaves (B9)			Cracks (B6)	
High Water Table (A2))	Aquatic Faun			X Drainage Pa		
Saturation (A3)		Marl Deposits			Moss Trim L	, ,	
Water Marks (B1)	.0)	·	Ifide Odor (C1)	D ((00)		Water Table (C2)	
Sediment Deposits (E	52)		zospheres on Livin	g Roots (C3)	Crayfish Bur		(00)
Drift Deposits (B3)			Reduced Iron (C4)	0 !! (00)		isible on Aerial Ima	
Algal Mat or Crust (B4	1)		Reduction in Tilled	Soils (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Su			X Geomorphic		
Inundation Visible on		Other (Explai	n in Remarks)		Shallow Aqu		
Sparsely Vegetated C	Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutral	Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	V Donth (inch	00).				
	Yes No _ Yes No	X Depth (inch X Depth (inch		_			
Water Table Present? Saturation Present?	Yes No	X Depth (inch		— Wetlend Hy	dralagy Brasant?	Voc. V	No
	res NO _	Deptil (ilicii	es)	Welland Hyd	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (stream gauge monitoring v	vell aerial photos r	revious inspection	s) if available:			
Boothbo Hoodi aca Bala (stroam gaago, montomig t	von, aoriai priotoo, p	novious mopostion	o), ii avallabio.			
Remarks:							

GETATION - Use scientific names of plants.				Sampling Point: 020-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:30)	%Cover	Species?	Status	, , ,
				Total Number of Dominant
		-		Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:)				OBL species15 x 1 =15
				FACW species 90 x 2 = 180
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: (A) (B)
				Prevalence Index = B/A = 1.86
				Hisdunghadia Vanat-ti
	0	= Total Cove	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size:5)	_	_		X 1 - Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea / Reed canarygrass, Reed canary gras	75	Yes	FACW	X 2 - Dominance Test is >50%
Carex Iurida / Shallow sedge	15	No	OBL	X 3 - Prevalence Index ≤3.0¹
Lysimachia nummularia / Moneywort, Creeping-jenny	15	No	FACW	4 - Morphological Adaptations (Provide supporting
	-	-		Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Venetation Office
				Definitions of Vegetation Strata
			-	- W 1 1 0 7 0 1 1 1 1 1 1 1 1 1
0		-	-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1.	•			
2		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size: 30)	103	_ = 10tal Cov	CI	
(Flot size)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
·				Woody vines - All woody vines greater than 3.28 ft in
· <u> </u>				height.
· ,	0	= Total Cove		Hydrophytic
		_ = 10tal Cov	er	
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 020-1W

Depth	ription: (Describe to the Matrix	<u> </u>		x Features			- ,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Re	emarks
0-4	10YR 2/1	90	5YR 4/6	10	С	PL	Loamy clay		
4-18	10YR 4/1	85	5YR 4/6	15	С	PL,M	Clay		
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		² Locatio	n: PL=Pore Lini	ng, M=Matrix.
lydric Soil I	ndicators:						Indicators for	or Problematic	Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (S	8) (I PP P	MI PA 149			K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Surfa						16) (LRR K, L, R)
						-			
	istic (A3) en Sulfide (A4)		Loamy Mucky N Loamy Gleyed I		(LRR R, L)			ucky Peat of Pea	at (S3) (LRR K, L, R)
	d Layers (A5)		X Depleted Matrix						e (S8) (LRR K, L)
	d Layers (A5) d Below Dark Surface (A	۸11)	Redox Dark Sui					irk Surface (S9)	
	ark Surface (A12)	~11 <i>)</i>	Depleted Dark S						s (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					-	oils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redux Depless	10113 (1 0)					ILRA 144A, 145, 149B)
	Redox (S5)							rent Material (F2	· · · · · · · · · · · · · · · · · · ·
	Matrix (S6)							allow Dark Surfa	
	rface (S7) (LRR R, ML	DA 140B)						Explain in Remai	
Daik Su	inace (57) (LINK IX, IVIL	IKA 149D)					Other (i		110)
³Indicators of	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	ss disturbed	l or problem	atic.		
D4-1-41 1	(# - b 1)·								
	_ayer (if observed):								
Type:	ichos).						Hudria Sail Bra	cont? Voc	V No
Depth (in							Hydric Soil Pre	sent? Yes	X No
Remarks:									

Project/Site:	19020 - South Ripley	Citv/C	county: Chautau	iqua County	Sampling Date:	07/01/2020
Applicant/Owner:		ConnectGen LLC		State: New York		021-1U
Investigator(s):	Matt Spadoni & Sam Pa		on, Township, Range:		vn of Ripley	021.10
Landform (hillslope, terrace,			oncave, convex, none):			5): 0-3
Subregion (LRR or MLRA):				g: -79.6980377		NAD 83
Soil Map Unit Name:			12.17070107	NWI classification		10.00
Are climatic / hydrologic con-			Y No (If no, explain in Remark		
, ,	oil, or Hydrology	-		al Circumstances" prese		No
	oil , or Hydrology			explain any answers in		
				•	•	
SUMMARY OF FINDIN	iGS - Attach Site ma		point locations, trai	isects, important	reatures, etc.	
Hydrophytic Vegetation Pr	esent? Yes	NoX	Is the Sampled Area			
Hydric Soil Present?	Yes	X No	within a Wetland?	Yes	No X	
Wetland Hydrology Preser	nt? Yes	X No	If yes, optional Wetlan	id Site ID:		
Pomarka: (Evolain altorna	tive procedures here or in a	congrate report)				
Remarks. (Explain alterna	live procedures here or in a	separate report.)				
HYDROLOGY						
Wetland Hydrology India	ators:					
	um of one required; check a	ill that apply)		Secondary Indica	ators (minimum of two	required)
Surface Water (A1)	o. o	Water-Stained Leave	es (B9)		Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13	` '		atterns (B10)	
Saturation (A3)	')	Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Od			Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhizosphe		Crayfish Bu		
Drift Deposits (B3)	<i>,</i>	Presence of Reduce			isible on Aerial Image	ery (C9)
Algal Mat or Crust (B	4)		on in Tilled Soils (C6)		Stressed Plants (D1)	21 y (OO)
Iron Deposits (B5)	")	Thin Muck Surface (• •		Position (D2)	
Inundation Visible on	Aerial Imageny (R7)	Other (Explain in Re		Shallow Aqu		
	Concave Surface (B8)	Office (Explain in Ne	iliaiks)		aphic Relief (D4)	
Sparsely vegetated t	concave Surface (Do)			FAC-Neutra		
				FAC-Neutra	i lest (D3)	
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 1	No X
(includes capillary fringe)				, 0,		
. , , , ,						
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous	s inspections), if available:			
Damadaa						
Remarks:						

/EGETATION - Use scientific names of plants.				Sampling Point: 021-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	matric obe, raow, or rao.
1.	70COVEI	Species:	Status	Total Number of Dominant
^				
2.		- -	 	Species Across All Strata: 1 (B)
3.				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 20 x 1 = 20
1.				FACW species 0 x 2 = 0
2				FAC species 15 x 3 = 45
3.				FACU species 70 x 4 = 280
4.				UPL species 0 x 5 = 0
				Column Totals: 105 (A) 345 (B)
6			-	Prevalence Index = B/A = 3.29
7				
7		- Total Cav		Hydrophytic Vegetation Indicators:
U 1 0 () (D) ()	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5		.,	- 4.011	2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	60	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Carex vulpinoidea / Fox sedge, Brown fox sedge	20	No	OBL	4 - Morphological Adaptations (Provide supporting
3. Ranunculus acris / Acrid buttercup	15	No	<u>FAC</u>	Problematic Hydrophytic Vegetation¹ (Explain)
Trifolium repens / White clover	10	No	FACU	<u> </u>
5		_		¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7			_,	be present, unless disturbed of problematic.
8				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				
		= Total Cov	er	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)		_ ''ota' ''	01	
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				
2.				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4			<u> </u>	
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 021-1U

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	i .
0-12	10YR 3/3	85	10YR 5/8	15	С	PL,M				
	- <u></u>									
	- <u></u>									
	- <u></u>									
	- <u></u>									
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=F	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicator	s for Probl	ematic Hydric	: Soils³:
Histosol			Polyvalue Belov	v Surface (S8) (LRR R	MLRA 149E) (LRR K, L, I	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (L	•
	istic (A3)		Loamy Mucky M							(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N		IX, L)				67) (LRR K, L	
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	
	• • •	111	Redox Dark Sur						, ,	
	d Below Dark Surface (A	411)							ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark S					-	-) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)							Parent Mat		
	I Matrix (S6)								ark Surface (TF	-12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent unles	s disturbed	l or problem	atic			
			, a. e. e. g,aet 20 p							
	_ayer (if observed):									
Type:								_		
Depth (in	iches):						Hydric Soil F	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripley	City/Cou	nty: Chauta	augua County	Sampling Date:	07/01/2020
Applicant/Owner:	· , , , , , , , , , , , , , , , , , , ,	ectGen LLC		State: New York	· · ·	021-1W
Investigator(s):	Matt Spadoni & Sam Parker		Township, Range:	_	wn of Ripley	
Landform (hillslope, terrace, et			ave, convex, none):			6): 0-3
Subregion (LRR or MLRA):				ong: -79.698215	. ,	NAD 83
Soil Map Unit Name:		shville silt loam		NWI classificati	-	
· · · · · · · · · · · · · · · · · · ·	tions on the site typical for this t			(If no, explain in Remark	-	
, ,	or Hydrology	· -		mal Circumstances" prese	•	No
	, or Hydrology			d, explain any answers in		_
	GS - Attach site map sh			•	•	
				-		
Hydrophytic Vegetation Pres Hydric Soil Present?	sent? Yes X Yes X	No	Is the Sampled Are within a Wetland?		No	
*		No		Yes	No	
Wetland Hydrology Present	? Yes <u>X</u>	No	If yes, optional Wetla	and Site ID.		
Remarks: (Explain alternativ Mowed ag field	re procedures here or in a sepa I	rate report.)				
HYDROLOGY						
Wetland Hydrology Indica	tors:					
	n of one required; check all that	apply)		Secondary Indic	ators (minimum of two	required)
Surface Water (A1)	1,	Water-Stained Leaves	(B9)	X Surface Soi		/
High Water Table (A2)	_	Aquatic Fauna (B13)	,		atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim I		
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Seasor	Water Table (C2)	
Sediment Deposits (B2	<u>X</u>	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	<u> </u>	Presence of Reduced I	ron (C4)	Saturation \	/isible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	<u> </u>	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7)	X Geomorphic	c Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	ırks)	Shallow Aq	uitard (D3)	
Sparsely Vegetated Co	ncave Surface (B8)			Microtopogi	raphic Relief (D4)	
				X FAC-Neutra	al Test (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):				
Saturation Present?	Yes No X	Depth (inches):	Wetlar	nd Hydrology Present?	Yes X	No
(includes capillary fringe)	· · · · · · · · · · · · · · · · · · ·			, ,		
(
Describe Recorded Data (st	ream gauge, monitoring well, a	erial photos, previous in	spections), if available	:		
Remarks:						

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species Species Status Species Status Species Across All Stratus Species Species Status Species Across All Stratus Species Species Status Species Across All Stratus Species Status Species Across All Stratus Species Status Species Across All Stratus Species Status Species Status Species Species Status Species Spe	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	VEGETATION - Use scientific names of plants.				Sampling Point: 021-1W
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	Absolute					Dominance Test worksheet:
Absolute Species Status That Are OBL, FACW, or FAC: 2	Absolute Open					
Tree Stratum	Tree Stratum		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Species Across All Strata: 3 (B)	Total Number of Dominant Species Across All Strata; 3 (8)	Tron Stratum (Diet size: 20)				That Are OBL, FACW, or FAC (A)
Species Across All Strata: 3 (B)	Species Across All Strata: 3 (B)		%Cover	Species?	Status	TAIN I GO : I
A	A					
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)					Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC:	3				
That Are OBL, FACW, or FAC: 66.7 (A/B)	That Are OBL_FACK, or FAC: 66.7 (A/B)	4				Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 70	Prevalence Index worksheet: Total % Cover Sapling/Shrub Stratum (Plot size: 15)	F				That Are OBL, FACW, or FAC: 66.7 (A/B)
Prevalence Index worksheet: Total % Cover Total % Cover Total % Cover of: Multiply by:	Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: A prevalence index of: Total % Cover of: A prevalence index of: Total % Cover of: A prevalence index of: Total % Cover of:	6				
Total % Cover of: Multiply by: OBL species 70 x 1 = 70	Total Cover of:			-		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:	Sapling/Shrub Stratum (Plot size:	··· ,		= Total Cov		Total % Cover of: Multiply by:
FACW species 0 x 2 = 0	FACW species 0	Carling/Chruh Ctratum (Dlat size: 15)		_ = 10101 00.	CI	
2.	FAC species 5					· — — —
FACU species 20	FACU species 20					
Act	A	2				· — — —
4. Column Totals: 95 (A) 165 (B) Frevalence Index = B/A = 1.74 1. Juncus effusus / Common bog rush, Soft or lamp rush 1. Juncus effusus / Common bog rush, Soft or lamp rush 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Solidago canadensis / Canada goldenrod 2. Ranunculus acris / Acrid buttercup 5. No FAC 4. Ranunculus acris / Acrid buttercup 5. No FAC 7. Definitions of Vegetation Indicators: 1. Rapid Test for Hydrophytic Vegetation X 2. Dominance Test is >50% X 3 Prevalence Index ≤ 3.0' 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strate Definitions of Vegetation Strate Tree - Woody plants a in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	Column Totals: 95 (A) 165 (B)	3.	- ——			· — — —
Column Totals: 95 (A) 165 (B) Prevalence Index = B/A = 1.74 Column Totals: 95 (A) 165 (B) Prevalence Index = B/A = 1.74 Hydrophytic Vegetation Indicators: 1. Juncus effusus / Common bog rush, Soft or lamp rush 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 35 Yes OBL 3. Solidago canadensis / Canada goldenrod 20 Yes FACU 4. Ranunculus acris / Acrid buttercup 5 No FAC 6.	Column Totals: 95					UPL species 0 x 5 = 0
Prevalence Index = BIA = 1.74 Prevalence Index = BIA = 1.74	Prevalence Index = B/A = 1.74 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index = 3.0° 3 - Prevalence Index = 3.0° 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 5 - No FAC 5 - No FAC 6 -	5				Column Totals: 95 (A) 165 (B)
Tree Woody Vine Stratum Plot size:	Herb Stratum (Plot size: 5 5 5 5 5 5 5 5 5 5	•				` ` ` ` _
Herb Stratum (Plot size:5) 1. Zuncus effusus / Common bog rush, Soft or lamp rush 35 Yes OBL 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 35 Yes OBL 3. Solidago canadensis / Canada goldenrod 20 Yes FACU 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Yes Facu Problematic Hydrophytic Vegetation Yes Problematic	D = Total Cover Total C					
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Implicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Hydrophytic Ve	Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Strata 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation	7				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 5) 1. Juncus effusus / Common bog rush, Soft or lamp rush 35 Yes OBL 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 35 Yes OBL 3. Solidago canadensis / Canada goldenrod 20 Yes FACU 4. Ranunculus acris / Acrid buttercup 5 No FAC 5.	Herb Stratum (Plot size: 5)		0	_ = Total Cov	er	
1. Juncus effusus / Common bog rush, Soft or lamp rush 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Solidago canadensis / Canada goldenrod 2. Yes FACU 4. Ranunculus acris / Acrid buttercup 5. No FAC 5.	1. Juncus effusus / Common bog rush, Soft or lamp rush 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Solidago canadensis / Canada goldenrod 2. Ves FACU 4. Ranunculus acris / Acrid buttercup 5. No FAC 7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. Uniform of Vegetation Strata 10. Uniform Stratum (Plot size: 30) 1. Uniform Stratum (Plot size: 30) 1. Uniform Stratum (Plot size: 30) 2. Uniform of Vegetation Strata 3. Solidago canadensis / Canada goldenrod 20 Yes FACU 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation Present? Yes X No	Herb Stratum (Plot size: 5)		_		-
2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Solidago canadensis / Canada goldenrod 2. Ves FACU 4. Ranunculus acris / Acrid buttercup 5. No FAC 6.	2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Solidago canadensis / Canada goldenrod 2. Ves FACU 4. Ranunculus acris / Acrid buttercup 5. No FAC 6		35	Yes	OBL	
3. Solidago canadensis / Canada goldenrod 4. Ranunculus acris / Acrid buttercup 5 No FAC 5.	3. Solidago canadensis / Canada goldenrod 4. Ranunculus acris / Acrid buttercup 5 No FAC 6.					X 3 - Prevalence Index ≤3.0¹
3. Solidago canadensis l'Canada goldenrod 4. Ranunculus acris / Acrid buttercup 5. No FAC 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 12. Sapling/shrub - 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. 4. Woody vines - All woody vines greater than 3.28 ft in height. 1. Woody vines - All woody vines greater than 3.28 ft in height.	3. Solidago canadensis / Canada goldenrod 4. Ranunculus acris / Acrid buttercup 5. No FAC 6. 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. 'Definitions of Vegetation Strata 9. 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation YesX No					4 - Morphological Adaptations (Provide supporting
4. Ranunculus acris / Acrid buttercup 5 No FAC 5.	A. Handredus acris / Acro buttercup 5 No FAC					1 -
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	Ranunculus acris / Acrid buttercup	5	No	FAC	
6	6	5.				41 Contains of building and quallend budgelogg must
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	be present, unless disturbed or problematic. Be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No					
8. 9.	8. 9.					be present, unless disturbed or problematic.
9.	9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. Definitions of vegetation strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation YesX No	0				
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	-				Definitions of Vegetation Strata
11	11					
11	11	10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	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)					
Woody Vine Stratum (Plot size: 30) 1.	Woody Vine Stratum (Plot size: 30) 1.	12		_		
Woody Vine Stratum (Plot size: 30) 1	Woody Vine Stratum (Plot size:30) 1	12.		- Total Cov		
1	1		90	_ = 10tai Cov	er	greater than or equal to 3.28 it (1 iii) tall.
2	2	Woody Vine Stratum (Plot size:)				
2	2	1				size, and woody plants less than 3.28 ft tall.
3	3	2				Woody vines - All woody vines greater than 3.28 ft in
4. 0 = Total Cover Hydrophytic Vegetation	4	3		_		
0 = Total Cover Hydrophytic Vegetation	0 = Total Cover	J A		-		neight.
Vegetation	Vegetation Present? Yes X No	4				11 1
	Present? Yes X No		U	_ = Total Cov	er	
Present? Yes X No						
						Present? Yes X No
	Remarks: (Explain alternative procedures here or in a separate report.)					

Depth	ription: (Describe to the Matrix	- 		r Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	5Y 2.5/1	85	7.5YR 5/8	15		PL,M	Clay			
	-			- '						
	-									
			-							
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=M	latrix.
Hydric Soil I									ematic Hydric S	
Histosol	` '		Polyvalue Belov) (LRR K, L, MI	
Histic Ep	oipedon (A2)		Thin Dark Surfa						edox (A16) (LR	
Black Hi	stic (A3)		Loamy Mucky M	1ineral (F1) ((LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly	/alue Belov	v Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A	411)	Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR K	(, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy M	Mucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 14	4A, 145, 149B)
Sandy R	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
							<u>—</u>			
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	l or problema	atic.			
Restrictive L	ayer (if observed):									
Type:	, , , , , , , , , , , , , , , , , , , ,									
Depth (in	ches):						Hydric Soil F	resent?	Yes X	No
F (
Remarks:										

Project/Site:	19020	- South Ripley	Ci	ty/County:	Chautauqua	County	Sampling Date:	08/13/2020
Applicant/Owner:		· · ·	nnectGen LLC	, , <u> </u>	· ·	tate: New York		021-2U
Investigator(s):		RM JK	Se	ection, Township,	Range:	To	wn of Ripley	
Landform (hillslope, ter	race, etc):	Slope	Local relie	f (concave, conve	ex, none):	Convex	Slope	(%): Gentle
Subregion (LRR or MLF	RA): LF	RR R MLRA 139	Lat:	42.17580838	Long:	-79.696468	02 Datun	n: NAD 83
Soil Map Unit Name:	· .		Erie silt loam			NWI classification	on:	
Are climatic / hydrologic	c conditions on the	e site typical for this	s time of year? Ye	es X	No (If no	 , explain in Remark	(S.)	
Are Vegetation	, Soil	, or Hydrology	significantly di	sturbed?	Are "Normal Ci	rcumstances" prese	ent? Yes	K No
Are Vegetation	, Soil	, or Hydrology	naturally prob	lematic?	(If needed, exp	lain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map s	howing sampl	ing point loc	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetati		Yes	No X		ampled Area	•	•	
Hydric Soil Present?		Yes	No X		Wetland?	Yes	NoX	
Wetland Hydrology F		Yes	No X		ptional Wetland Si			_
				,, .				
Remarks: (Explain al	Iternative procedu	res here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicatore:							
Primary Indicators (m		aquired: check all th	at annly)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (quirea, eneck air tir	Water-Stained Lo	eaves (R9)	-		l Cracks (B6)	wo required)
High Water Tabl	,		Aquatic Fauna (` ,			atterns (B10)	
Saturation (A3)	. ,		Marl Deposits (B	•		Moss Trim I		
Water Marks (B			Hydrogen Sulfide	-			Water Table (C2)	
Sediment Depos	,	-	Oxidized Rhizos		Roots (C3)	Crayfish Bu		
Drift Deposits (E			Presence of Red	_	110010 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•	-	Recent Iron Red		oils (C6)		Stressed Plants (D	
Iron Deposits (B			Thin Muck Surfa		()		Position (D2)	.,
	ole on Aerial Image	erv (B7)	Other (Explain in	` '		Shallow Aq		
	ated Concave Sur		_ ` '	,			raphic Relief (D4)	
						FAC-Neutra	Il Test (D5)	
Field Observations:		N. V	5 " "					
Surface Water Prese		S NoX			=			
Water Table Present		8 NoX			- ,,, ,, ,,,			N V
Saturation Present?	Yes	s NoX	Depth (inches):		_ Wetland Hy	drology Present?	Yes	No X
(includes capillary fri	nge)							
Describe Recorded [Data (stream gaud	ge. monitoring well.	aerial photos, prev	ious inspections	. if available:			
	(9	,-,	ристе, рист	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			
Remarks:								

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	Illat Ale ODL, FACTY, OLI AC.
. (Flot Size)	/0CUVCI	эрсыса:	Status	Total Number of Deminant
				Total Number of Dominant
·				Species Across All Strata: 2 (B)
·				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: (A/B)
•				
·				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)				OBL species x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 40 x 3 = 120
				FACU species 45 x 4 = 180
				UPL species 0 x 5 = 0
				Column Totals: 85 (A) 300 (B)
-				Prevalence Index = B/A = 3.53
			- ——	Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				2 - Dominance Test is >50%
Apocynum cannabinum / Indian hemp	30	Yes	FAC	3 - Prevalence Index ≤3.0¹
Solidago canadensis / Canada goldenrod	20	Yes	FACU	4 - Morphological Adaptations (Provide supporting
Pteridium aquilinum / Western brackenfern	15	No	FACU	
Clematis virginiana / Devil's-darning-needles	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Potentilla simplex / Oldfield cinquefoil	10	No	FACU	
· · · · · · · · · · · · · · · · · · ·				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata
0.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2		_		Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size: 30)	-	_		Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
· -				height.
·			- ——	noight.
·		= Total Cov		Hydrophytic
		_ = 10(a) 00.	CI	Vegetation
				vegetation
				Present? Yes No X

SOIL Sampling Point: 021-2U

Depth	ription: (Describe to the Matrix			k Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	KS	
0-18	10YR 4/3	70	10YR 5/4	30	D	М	Loam				
	· -						_				
		,									
			_								
	·										
	·					 •					
								-			
ype: C=Cor	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, N	1=Matrix.	
ydric Soil I	ndicators:						Indicators	for Probl	ematic Hydı	ric Soils ³	
Histosol			Polyvalue Belov	v Surface (S8	R) (IRRR	MI RA 149F) (LRR K, L		R)
	pipedon (A2)		Thin Dark Surfa						edox (A16)		-
Black Hi			Loamy Mucky M			(1430)			at or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		LKK K, L)				7) (LRR K ,		L, N)
								-	/ Surface (S8	-	
	d Layers (A5)	۸ 1 1)	Depleted Matrix						•	, .	∟)
	d Below Dark Surface (A	411)	Redox Dark Sur						ce (S9) (LR		. D\
	ark Surface (A12)		Depleted Dark S					-	Masses (F1		
	Mucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F		
	Gleyed Matrix (S4)								A6) (MLRA	144A, 145,	149B)
	Redox (S5)								erial (F21)		
	Matrix (S6)								ark Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain in	n Remarks)		
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problems	atic.				
	.ayer (if observed):		, , ,	•		·					
	.ayer (ii observed):										
Type:	-h \.						Usedeta Osti Da		V	NI-	V
Depth (in	cnes):						Hydric Soil Pi	resent?	Yes	No _	<u> </u>
Remarks:											
.Ciriarks.											

Project/Site:	19020 - Sout	th Ripley	Cit	ty/County:	Chautauqua	County	Sampling Date:	08/13/2020
Applicant/Owner:		Conr	nectGen LLC	· · ·	•	ate: New York		021-2W
Investigator(s):	JK,F		Se	ction, Township, Ra			wn of Ripley	
Landform (hillslope, terrac	e, etc):	Hillslope		(concave, convex,		Concave		(%): 3-8
Subregion (LRR or MLRA		•	 Lat:	•	Long:	-79.6963410		
Soil Map Unit Name:			Erie silt loam			NWI classification		PSS
Are climatic / hydrologic c		typical for this	time of year? Ye	s X No	(If no,	– explain in Remark	s.)	
, ,	Soil, or Hy		•		`	cumstances" prese	,	(No
	Soil , or H					ain any answers in		
SUMMARY OF FINE					•	-	•	
					·	oto, important		
Hydrophytic Vegetation	Present?	Yes X Yes X	_ No		npled Area	Van V	Na	
Hydric Soil Present?	10		_ No	within a W		Yes X	No 021-2W PSS	_
Wetland Hydrology Pre	sent?	Yes X	_ No	ii yes, opuo	onal Wetland Site	e iD:	021-2W PSS	-
Remarks: (Explain alter	native procedures he	ere or in a sepa	arate report.)					
			, , , , , , , , , , , , , , , , , , , ,					
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min	mum of one required	d; check all tha	t apply)				ators (minimum of t	wo required)
Surface Water (A1	,		Water-Stained Le	, ,			l Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (E			X Drainage Pa		
Saturation (A3)			Marl Deposits (B	•		Moss Trim L		
Water Marks (B1)			Hydrogen Sulfide				Water Table (C2)	
Sediment Deposits	` '	<u>X</u>	-	heres on Living Ro	oots (C3)	Crayfish Bu		
Drift Deposits (B3)			Presence of Red	uced Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)		Recent Iron Redu	uction in Tilled Soils	s (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)			Thin Muck Surface			Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B	7)	Other (Explain in	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	d Concave Surface (I	B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Present	Yes	No. V	Donth (inches):					
	Yes	NoX NoX	_ ' ' '					
Water Table Present? Saturation Present?	Yes	No X	- ' ' '		Wetlend Hud	Irology Broomt?	Voc. V	No
		NO	_ Depth (inches):		vvetiana nya	rology Present?	Yes X	No
(includes capillary fringe	*)							
Describe Recorded Dat	a (stream gauge, mo	onitoring well, a	erial photos, previ	ous inspections), if	available:			
	33.,	3 , , ,		.,,				
Remarks:								

				Sampling Point:021-2W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
	6Cover	Species?	Status	
·				Total Number of Dominant Species Across All Strata: 4 (B)
		-		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
)				Prevalence Index worksheet:
·	0	= Total Cov	 er	Total % Cover of: Multiply by:
		-	o.	OBL species 0 x 1 = 0
. Salix bebbiana / Gray willow, Bebb's willow	75	Yes	FACW	FACW species 85 x 2 = 170
				FAC species 60 x 3 = 180 FACU species 20 x 4 = 80
J		-		FACU species 20 x 4 = 80 UPL species 10 x 5 = 50
·				Column Totals: 175 (A) 480 (B)
6				Prevalence Index = B/A = 2.74
· ·		-		
	75	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
. Solidago rugosa / Wrinkle-leaf goldenrod	40	Yes	FAC	X 3 - Prevalence Index ≤3.01
2. Symphyotrichum prenanthoides / Crooked-stem american-as	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting
Potentilla simplex / Oldfield cinquefoil	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Onoclea sensibilis / Sensitive fern	10	No No	FACW	
5. Fragaria vesca / Wild strawberry, Wood strawberry	10	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
)			·	be present, unless disturbed or problematic.
`.				B 5 111
).				Definitions of Vegetation Strata
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1.				breast height (DBH), regardless of height.
2.		= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u> </u>				Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cov	er	Hydrophytic
-		-		Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate re	enort)			Present? YesX No

Depth	ription: (Describe to the Matrix			k Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-5	10yr 4/2	98	7.5yr 4/6	2	C	PL	Loam			
5-18	10yr 5/2	85	7.5yr 5/6	15	D	M	Clay loam			
	. <u> </u>									
	·									
				- ——						
	·									
IT O. O.		- DM Dad					21	-ti DI - 5	Name Limite - NA NA	1 - 4 - i
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masi	ked Sand Gr	ains.		-Loca	ation: PL=F	Pore Lining, M=M	latrix.
Hydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric S	Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, MI	LRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	edox (A16) (LR	R K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm	Mucky Pe	at or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	(LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly\	/alue Belov	v Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A	A11)	Redox Dark Sui				Thin	Dark Surfa	ce (S9) (LRR K	(, L)
Thick Da	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	racant unlac	se dieturhed	or problem	natio			
		una wellane	- Trydrology mast be p			Т				
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:						•				

Project/Site:	19020 - So	outh Ripley		City/County:	Chautauqua	County	Sampling Date:	08/18/2020
Applicant/Owner:			nnectGen LLC	, , <u> </u>	· ·	State: New York		021-3W
Investigator(s):		K, SPF		Section, Township,			wn of Ripley	
Landform (hillslope, terra				ief (concave, conve		Concave		(%): 3
Subregion (LRR or MLRA	· · ·	•	Lat:	•	· -		·	` '
Soil Map Unit Name:			Erie silt loam			NWI classification		PEM
Are climatic / hydrologic o		ite typical for thi		Yes X	No (If no	 o, explain in Remark		
, ,			•	disturbed?		ircumstances" prese	,	(No
	, Soil , or					plain any answers in		
SUMMARY OF FINE						•	•	
		-				oto, important	icatares, etc.	
Hydrophytic Vegetation	resent?	Yes X	No		ampled Area			
Hydric Soil Present?		Yes X	No		Wetland?	Yes X		=
Wetland Hydrology Pre	esent?	Yes X	No	_ If yes, o	ptional Wetland Si	ite ID:	021 PEM	
Remarks: (Explain alte	rnative procedures	here or in a se	parate report.)					
	·		. ,					
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min			,				ators (minimum of t	wo required)
Surface Water (A1	•	<u>X</u>	_ Water-Stained	` '			l Cracks (B6)	
High Water Table	(A2)	_	_ Aquatic Fauna				atterns (B10)	
Saturation (A3)		_	_ Marl Deposits	` ,		Moss Trim L	,	
Water Marks (B1)			_ Hydrogen Sulf	ide Odor (C1)			Water Table (C2)	
Sediment Deposit	s (B2)		Oxidized Rhizo	ospheres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3))	_	Presence of R	educed Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	t (B4)		Recent Iron Re	eduction in Tilled So	oils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5))		_ Thin Muck Sur			X Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery	(B7)	Other (Explain	in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surfac	e (B8)				X Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Present	? Yes	No. V	Donth (incho	٥)٠				
	Yes	No <u>X</u> No X		•	-			
Water Table Present? Saturation Present?	Yes	No X	Depth (inches		- Wetland Hy	drology Drocont?	Voc. V	No
		NO	Depth (inche	s)	- welland ny	drology Present?	Yes X	No
(includes capillary fring	le)							
Describe Recorded Da	ta (stream gauge,	monitoring well,	aerial photos, pr	evious inspections)	, if available:			
	3.13.,	3 ,	, , , , , , , , , , , , , , , , , , , ,		,			
Remarks:								

SETATION - Use scientific names of plants.				Sampling Point: 021-3W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
ee Stratum (Plot size: 30)	%Cover	Species?	Status	
Hamamelis virginiana / American witch-hazel	15	Yes	FACU	Total Number of Dominant
Carpinus caroliniana / American hornbeam	10	Yes	FAC	Species Across All Strata: 7 (B)
Acer rubrum / Red maple	10	Yes	FAC	opeolos notoss nii otiala.
· · · · · · · · · · · · · · · · · · ·				Devent of Deminant Charles
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 57.1 (A)
				- 1 1 1da.b.a.
				Prevalence Index worksheet:
	35	_ = Total Cov	er	Total % Cover of: Multiply by:
ling/Shrub Stratum (Plot size:)				OBL species0 x 1 =0
Carpinus caroliniana / American hornbeam	10	Yes	FAC	FACW species 75 x 2 = 150
Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	FAC species 30 x 3 = 90
·				FACU species 25 x 4 = 100
				UPL species 0 x 5 = 0
				Column Totals: 130 (A) 340
				Prevalence Index = B/A = 2.62
				Hydrophytic Vegetation Indicators:
	20	= Total Cov	er	
b Stratum (Plot size: 5)		-		1 - Rapid Test for Hydrophytic Vegetation
Carex / Sedge	50	Yes		X 2 - Dominance Test is >50%
mpatiens capensis / Spotted jewelweed	45	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Onoclea sensibilis / Sensitive fern	20	No	FACW	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
Fraxinus pennsylvanica / Green ash	10	No	FACW	
				¹Indicators of hydric soil and wetland hydrology must
			-	be present, unless disturbed or problematic.
			-	Definitions of Vegetation Strata
				Definitions of vegetation of ata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
	125	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
ody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
		-		height.
		_		
	0	= Total Cov	/or	Hydrophytic
		_ = 10(a) C0V	EI	
				Vegetation Present? Yes X No
				Present? Yes X No

SOIL Sampling Point: 021-3W

Depth	ription: (Describe to t Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-10	2.5 y 3/1	95	7.5 yr 5/6	5	C	М	Loam	
10-18	5y 5/1	70	2.5yr 3/6	10	C		Clay loam	Redox is Sand
10-18	10GY 4/1			· <u> </u>	C	M		-
				· 				
				. ———				
				· 				
		.		·				• ;
ype: C=Cor	ncentration, D=Depletion	on, RM=Redi	uced Matrix, MS=Mask	ed Sand Gr	ains.		²Loc	ation: PL=Pore Lining, M=Matrix.
dria Sail I	adicators						Indicator	s for Problematic Hydric Soils ³ :
dric Soil I			Polynyaluo Polov	Curface (S	0\ /I DD D	MI DA 140		•
_ Histosol			Polyvalue Below				-	Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	oipedon (A2)		Thin Dark Surface			1490)		st Prairie Redox (A16) (LRR K, L, R)
_	n Sulfide (A4)		Loamy Mucky M Loamy Gleyed N		(LRR R, L)		_	Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)
_	I Layers (A5)		X Depleted Matrix					value Below Surface (S8) (LRR K, L)
_	l Below Dark Surface (A11)	X Redox Dark Sur	. ,				Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	, ,	Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depressi					mont Floodplain Soils (F19) (MLRA 149B)
_	leyed Matrix (S4)			,				c Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, MI	LRA 149B)						r (Explain in Remarks)
ndicators of	hydrophytic yegotetica	and wattan	d budralagu muat ba ar	rocent unles	a diaturbad	or problem	actio	
	hydrophytic vegetation	and welland	Trydrology must be pr	esent, unles	s distuibed	or problem	iauc.	
	ayer (if observed):							
Type: Depth (in	ahaa):						Uvdria Cail I	Propert? Vos V No
Deptii (iii							Hydric Soil F	Present? Yes X No
emarks:								

Project/Site:	19020 -	South Ripley		City/Coun	tv:	Chautauqua	County	Sampling Date:	08/18/2020
Applicant/Owner:			nectGen LLC	,	·	•	ate: New York		021-4W
Investigator(s):		JK,SPF		Section. T	ownship, Ran			wn of Ripley	
Landform (hillslope, ter		,	Local re		ve, convex, n		Nown		e (%): 0-5
Subregion (LRR or MLI	RA): LR	R R MLRA 139	Lat:		7672398	-			` '
Soil Map Unit Name:	,		Erie silt loam				NWI classification	-	PFO
Are climatic / hydrologic	c conditions on the	site typical for this			. No	(If no,	explain in Remark	s.)	-
Are Vegetation							cumstances" prese	•	X No
		, or Hydrology		roblematic?	· (I	f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FII						-	•	•	
Hydrophytic Vegetati		Yes	No X		Is the Samp				
Hydric Soil Present?		Yes X	No X	_	within a We		Yes X	No	
Wetland Hydrology F		Yes X	No	_			e ID:	021-4W	_
Trouding Trydrology T						iai vvoliana oli		021 111	
Remarks: (Explain al This is v		res here or in a sep oruce pine plantatio		Heidrick					
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (n		nuired: check all th:	at annly)				Secondary Indica	ators (minimum of	two required)
Surface Water (an ou, on ook an the	Water-Staine	d Leaves (E	39)			l Cracks (B6)	two roquirou)
High Water Tabl	,		Aquatic Faun	`			X Drainage Pa	` ,	
Saturation (A3)			Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Su	` ,	C1)			Water Table (C2)	
Sediment Depos	•	X	Oxidized Rhiz		-	ts (C3)	Crayfish Bu		
Drift Deposits (E			Presence of F	-	-	,		/isible on Aerial Im	nagery (C9)
Algal Mat or Cru	•		Recent Iron F	Reduction in	Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (E	35)	<u></u>	Thin Muck Su	ırface (C7)	·	•	X Geomorphic	Position (D2)	
Inundation Visib	ole on Aerial Image	ery (B7)	Other (Explai	n in Remarl	ks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Surfa	ace (B8)	•				X Microtopogr	raphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations									
Field Observations: Surface Water Prese		No. V	Donth (inch	oo).					
Water Table Present		NoX NoX		-					
Saturation Present?	Yes		_ ' `	· —		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fri		NO	_ Deptil (illicili			welland Hyu	irology Fresent?	ies	_ NO
(Includes capillary III									
Describe Recorded [Data (stream gauge	e, monitoring well,	aerial photos, p	revious ins	pections), if a	vailable:			
Domonico									
Remarks:									

		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species 4 (B) Percent of Dominant Species 4 (A/B) Prevalence Index worksheet: 5 0 (A/B) Prevalence Index worksheet: 0 X 1 = 0 0 FACW species 0 X 1 = 0 0 FACW species 40 X 2 = 80 0 FAC species 0 X 3 = 0 0 FACU species 0 X 4 = 0 0 UPL species 0 X 5 = 0 0 Column Totals: 40 (A) 80 (B)
Tree Stratum (Plot size:	Status	Total Number of Dominant Species Across All Strata:
1. Picea abies / Norway spruce 70 Yes 2		Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
2.		Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
3.		Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
4.		Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
5.		Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
6		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
Total Cover Sapling/Shrub Stratum (Plot size:15)		Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
Sapling/Shrub Stratum		OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
1. Salix / Willow 15 Yes 2. 3. 4. 5. 6.		FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
2.		FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
3.		FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
3		UPL species 0 x 5 = 0
4		
5. 6. 7. 15 = Total Cover Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 40 Yes 2. Eutrochium maculatum var. maculatum / Spotted joe pye we 20 Yes 3. Carex / Sedge 10 No 4. Aster / Aster 10 No 5. 6. 7. 8. 9. 10. 11. 12.		Column Totals: 40 (A) 80 (B)
6.		、 , 、 ,
7		Prevalence Index = B/A = 2.0
Herb Stratum (Plot size: 5)		Hydrophytic Vegetation Indicators:
1. Onoclea sensibilis / Sensitive fern 40 Yes 2. Eutrochium maculatum var. maculatum / Spotted joe pye we 20 Yes 3. Carex / Sedge 10 No 4. Aster / Aster 10 No 5. 6. 7. 8. 9. 10. 11. 12.		X 1 - Rapid Test for Hydrophytic Vegetation
2. Eutrochium maculatum var. maculatum / Spotted joe pye we 20 Yes 3. Carex / Sedge 10 No 4. Aster / Aster 10 No 5. — — 6. — — 7. — — 8. — — 9. — — 10. — — 11. — — 12. — —		2 - Dominance Test is >50%
3. Carex / Sedge 10 No 4. Aster / Aster 10 No 5.	FACW	X 3 - Prevalence Index ≤3.0¹
4. Aster / Aster 10 No 5. 6. 7. 8. 9. 10. 11. 12.		4 - Morphological Adaptations (Provide supporting
5. 6. 7. 8. 9. 10. 11. 12.		Problematic Hydrophytic Vegetation¹ (Explain)
6.		1 Toblematio 11 yarophytic vegetation (Explain)
7. 8. 9. 10. 11. 12.		¹Indicators of hydric soil and wetland hydrology must
8		be present, unless disturbed or problematic.
8		be precent, unless distances of precionate.
10		Definitions of Vegetation Strata
11		
12		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12		breast height (DBH), regardless of height.
= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Manda Nina Otrata (District)		greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30) 1.		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.		Woody vines - All woody vines greater than 3.28 ft in
3.		height.
4		Hadarah da
0 = Total Cover		Hydrophytic Vegetation
		Present? Yes X No
		Fresent: 165 X NO

SOIL Sampling Point: 021-4W

Depth	iption: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10yr 3/2	95	7.5yr 4/6	6	С	PL,M	Silt loam			
6-20	10yr 6/1	80	7.5yr 5/6	20	C	M	Clay loam			
				- 						
				<u> </u>						
T O. O	tti D. Dl-ti-	- DM D-d	d Matrix MO Mark				21	-ti DI D	1 :-: 14 14	_4_t.
Type: C=Con	centration, D=Depletio	on, Rivi=Red	uced Matrix, MS=Masi	ked Sand Gr	airis.		-LOCa	alion: PL=P	ore Lining, M=Ma	atrix.
Hydric Soil In	dicators:						Indicator	s for Proble	ematic Hydric S	oils³:
Histosol ((A1)		Polyvalue Belov	v Surface (S	B) (LRR R ,	MLRA 1491	B) 2 cm	Muck (A10) (LRR K, L, ML	.RA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	(149B)	Coas	t Prairie Re	dox (A16) (LRF	R K, L, R)
Black His	etic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	it or Peat (S3) (I	RR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Poly	alue Below	Surface (S8) (I	_RR K, L)
Depleted	Below Dark Surface (A	A11)	X Redox Dark Sur				Thin	Dark Surfac	ce (S9) (LRR K	, L)
	rk Surface (A12)		Depleted Dark S					-	Masses (F12)	
	ucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19)	
	eyed Matrix (S4)								A6) (MLRA 144	IA, 145, 149B)
Sandy Re								Parent Mate		
	Matrix (S6)								rk Surface (TF1	2)
Dark Surf	face (S7) (LRR R, ML	_RA 149B)					Othe	r (Explain in	Remarks)	
³ Indicators of h	nydronhytic vegetation	and wetlan	d hydrology must be n	resent unles	s disturbed	or problem	atic			
³Indicators of I	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
	nydrophytic vegetation ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive La	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem				
Restrictive La	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic. Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No

Project/Site:	19020 - South Riple	V	City/County:	Chautauqua	County	Sampling Date:	07/02/2020
Applicant/Owner:	1 .	ConnectGen LLC	, , <u> </u>		ate: New York	· · · -	022-1U
Investigator(s):	MS, SPF		Section, Township, F			wn of Ripley	
Landform (hillslope, terrace,		l local re	lief (concave, convex		Convex		(%): 3
Subregion (LRR or MLRA):				Long:	-79.6967638		`
Soil Map Unit Name:	ERREIGE	Erie silt loam	12.10022000		NWI classification		10.00
Are climatic / hydrologic cor	nditions on the site typical f		Vec Y N	o (If no	explain in Remark		
, ,	Soil X , or Hydrolog	•			cumstances" prese		. No
		y <u>x</u> significantly y naturally pr			•		NO
					ain any answers in	·	
SUMMARY OF FINDI	NGS - Attach site m	ap snowing sam	pling point loca	tions, transec	ets, important	teatures, etc.	
Hydrophytic Vegetation P	resent? Yes _	NoX	Is the Sa	mpled Area			
Hydric Soil Present?	Yes	No X	within a \	Wetland?	Yes	No X	_
Wetland Hydrology Prese	ent? Yes	No X	If yes, opt	tional Wetland Sit	e ID:		_
	ative procedures here or in y ag Road and brush hogg		'				
HYDROLOGY							
Wetland Hydrology Indi					0 1 1 1		
	num of one required; check	1177	(D0)			ators (minimum of ty	vo requirea)
Surface Water (A1)	•	Water-Stained	` ,			Cracks (B6)	
High Water Table (A	2)	Aquatic Fauna				atterns (B10)	
Saturation (A3)		Marl Deposits			Moss Trim L	` '	
Water Marks (B1)			fide Odor (C1)			Water Table (C2)	
Sediment Deposits ((B2)		ospheres on Living R	Roots (C3)	Crayfish Bu		
Drift Deposits (B3)			educed Iron (C4)			isible on Aerial Ima	. , ,
Algal Mat or Crust (E	34)		eduction in Tilled Soil	ls (C6)		Stressed Plants (D1)
			rfaco (C7)				
Iron Deposits (B5)		Thin Muck Su	nace (Cr)		Geomorphic	Position (D2)	
1 - ' ' '	n Aerial Imagery (B7)	Thin Muck Su Other (Explain			Geomorphic Shallow Aqu		
Inundation Visible or	n Aerial Imagery (B7) Concave Surface (B8)				Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or					Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated				T	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations:	Concave Surface (B8)	Other (Explair	in Remarks)		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	Concave Surface (B8) Yes No	Other (Explain X Depth (inche	n in Remarks)		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	Concave Surface (B8) Yes No Yes No	Other (Explain X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No Yes No Yes No Yes No	Other (Explain X Depth (inche	es):	Wetland Hyd	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	NoX
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	Yes No Yes No Yes No Yes No	Other (Explain X Depth (inche	es):	Wetland Hyd	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes No Yes No Yes No Yes No	X Depth (inche X Depth (inche X Depth (inche	es):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Free Stratum (Plot size: 30)	%Cover	Species?	Status	That Ald OBE, TAON, OF TAO.
	/00010.	_ оролог.	Otatao	Total Number of Dominant
<u> </u>		- —		
				Species Across All Strata: 3 (B)
				Demant of Deminant Chapita
k				Percent of Dominant Species That Are ORL FACW or FAC: (A/R)
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
ò				Prevalence Index worksheet:
7				
	0	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:15)				OBL species 0 x 1 = 0
l		=		FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3.				FACU species 95 x 4 = 380
l				UPL species 0 x 5 = 0
5.				Column Totals: 95 (A) 380 (B)
·				Prevalence Index = B/A = 4.0
		-		
·		Tatal Cov	- ——	Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	ər	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	22		7:00	2 - Dominance Test is >50%
. Trifolium pratense / Red clover	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	25	Yes	FACU	4 - Morphological Adaptations (Provide supporting
B. Plantago major / Common plantain	25	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Phleum pratense / Common timothy, Cultivated timothy	15	No	FACU	FIUDIciliano Frydrophyno vogotation (EAP.S)
5.		· -		the state of the s
5.				¹Indicators of hydric soil and wetland hydrology must
·			. ——	be present, unless disturbed or problematic.
			-	To the section Strate
				Definitions of Vegetation Strata
10.			- ——	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
(95	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Noody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
l		=	=	size, and woody plants less than 3.28 ft tall.
2.			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
3.		· —		height.
ı				
	0	= Total Cove	er	Hydrophytic
		-		Vegetation
				Present? Yes No X
				Fieseitti 100

SOIL Sampling Point: 022-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 5/2 100 0-2 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Very disturbed and compacted

Project/Site:	1902	20 - South Ripley		City/Cou	ntv:	Chautauqua (County	Sampling Date:	07/01/2020
Applicant/Owner:			ectGen LLC	,			ate: New York		022-2W
Investigator(s):	Matt S	Spadoni & Sam Parker		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, teri			Local r		ave, convex, n		Concave		e (%): 1-5
Subregion (LRR or MLF		LRR R MLRA 139	Lat:		.1833169		-79.696624	•	ım: NAD 83
Soil Map Unit Name:	,		Erie silt loam				NWI classification		PEM
Are climatic / hydrologic	c conditions on	the site typical for this	time of year?	Yes 2	X No	(If no,	– explain in Remark	(s.)	
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		roblematic	? (If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN							•		
Hydrophytic Vegetati		Yes X			Is the Samp		,p =		
Hydric Soil Present?		Yes X	No	_	within a We		Yes X	No	
Wetland Hydrology P		Yes X	No	_			e ID:	Wetland 22	_
Welland Hydrology F	resenti	165 <u>X</u>			ii yes, opiioi	iai welianu Sile	= ID	vvelianu 22	
Remarks: (Explain al	ternative proce	edures here or in a sepa	rate report.)						
HYDROLOGY									
Wetland Hydrology									
		required; check all that	,					ators (minimum of	two required)
Surface Water (•		Water-Staine	•	(B9)		X Surface Soi	` ,	
High Water Tabl	` ,	_	Aquatic Faun				X Drainage Pa		
Saturation (A3)		_	Marl Deposits				Moss Trim L		
Water Marks (B	,		Hydrogen Su					Water Table (C2)	
Sediment Depos	` '	<u>X</u>			on Living Roo	ts (C3)	Crayfish Bu		
Drift Deposits (E	•	_	Presence of I					/isible on Aerial In	
Algal Mat or Cru		_			in Tilled Soils (.C6)		Stressed Plants (D	11)
Iron Deposits (B	•	(D7)	Thin Muck St	, ,	•		X Geomorphic		
Inundation Visib			Other (Explai	n in Rema	rks)		Shallow Aqı		
Sparsely Vegeta	ited Concave S	зипасе (вв)						raphic Relief (D4)	
							X FAC-Neutra	ir rest (D5)	
Field Observations:									
Surface Water Prese	nt? Y	Yes No X	Depth (inch	es):					
Water Table Present	? ү	Yes No X	Depth (inch	es):					
Saturation Present?	Υ	Yes No X	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary frin	nge)			, <u> </u>		-	-		-
Describe Recorded D)ata (stream ga	auge, monitoring well, a	erial photos, p	revious in	spections), if a	ıvailable:			
Damarka									
Remarks:									

/EGETATION - Use scientific names of plants.				Sampling Point: 022-2V	Ν
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A	4)
Tree Stratum (Plot size:)	%Cover	Species?	Status	(.,
1.	700010.	<u> </u>		Total Number of Dominant	
^			 	Species Across All Strata: 2 (B	٥١
^				Species Across Air Strata.	(د
1				Devent of Deminent Charles	
4				Percent of Dominant Species	. (D)
5				That Are OBL, FACW, or FAC: 100.0 (A	4/B)
6				Prevalence Index worksheet:	
7					
	0	_ = Total Cov	er		
Sapling/Shrub Stratum (Plot size:)				OBL species 15 x 1 = 15	
Fraxinus pennsylvanica / Green ash	15	Yes	FACW	FACW species115 x 2 =230	
2				FAC species 0 x 3 = 0	
3				FACU species 0 x 4 = 0	
4				UPL species 0 x 5 = 0	
5.				Column Totals:130(A)245	(B)
6.				Prevalence Index = B/A = 1.88	
7.					
·· 	15	= Total Cov	er	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)			Ci	X 1 - Rapid Test for Hydrophytic Vegetation	
Phalaris arundinacea / Reed canarygrass, Reed canary gras	70	Yes	EAC\A/	X 2 - Dominance Test is >50%	
			FACW	X 3 - Prevalence Index ≤3.01	
2. Carex lurida / Shallow sedge	15	No No	OBL	4 - Morphological Adaptations (Provide supporting	
3. Lysimachia nummularia / Moneywort, Creeping-jenny	15	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)	
Onoclea sensibilis / Sensitive fern	15	No	FACW		
5				¹ Indicators of hydric soil and wetland hydrology must	
6				be present, unless disturbed or problematic.	
7				be present, unless disturbed of problematic.	
8.				Definitions of Vegetation Strata	
9.				Dominiono di Vogotation di ata	
10.				Tree Moody plants 2 in (7.6 cm) or more in diameter s	o t
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height.	aı
11	-	-	 		
12		= Total Cov	or	Sapling/shrub - Woody plants less than 3 in. DBH and	
Mandy Vine Stratum (Plat size: 20		_ = 10(a) C0V	CI	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless o	of
1				size, and woody plants less than 3.28 ft tall.	
2.		- -		Woody vines - All woody vines greater than 3.28 ft in	
3				height.	
4					
	0	_ = Total Cov	er	Hydrophytic	
				Vegetation	
				Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separate	report.)				

SOIL Sampling Point: 022-2W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10YR 2/1	100					Loamy clay			
4-18	10YR 4/1	80	10YR 5/8	20			Loamy clay			
	-									
					· .					
					· .					
						,				
						,		-		
				_						
	-							-		
	·									
				_	· —— ·					
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	rains.		²Loca	tion: PL=F	ore Lining, M=M	latrix.
•										
Hydric Soil I									ematic Hydric S	
Histosol	` '		Polyvalue Belov) (LRR K, L, MI	-
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LF	RR R, MLRA	149B)			edox (A16) (LR	
Black Hi	istic (A3)		Loamy Mucky N	/lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyv	alue Belov	v Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	411)	Redox Dark Su	rface (F6)			Thin I	Dark Surfa	ce (S9) (LRR K	Σ, L)
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-N	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedn	nont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic	Spodic (T	A6) (MLRA 14	4A, 145, 149B)
Sandy F	Redox (S5)						Red F	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
	rface (S7) (LRR R, ML	.RA 149B)							n Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ss disturbed	or problem	atic.			
Restrictive L	_ayer (if observed):									
Type:	,									
Depth (in	iches).						Hydric Soil P	resent?	Yes X	No
Boptii (iii										
Remarks:										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/02/2020
Applicant/Owner:	· *	ConnectGen LLC	, , <u> </u>	•	tate: New York	-	022-2W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Townsh			vn of Ripley	
Landform (hillslope, terrace,	· · · · · · · · · · · · · · · · · · ·				Concave		(%): 2-5
Subregion (LRR or MLRA):				8 Long:			` '
Soil Map Unit Name:					NWI classification		PSS
Are climatic / hydrologic con-				No (If no	_		
, ,	oil, or Hydrology	•			rcumstances" prese	,	(No
	oil , or Hydrology				lain any answers in		<u> </u>
				•	•	•	
SUMMARY OF FINDIN	NGS - Attach Site ma			cations, transe	cts, important i	reatures, etc.	
Hydrophytic Vegetation Pr	esent? Yes	X No		Sampled Area			
Hydric Soil Present?	Yes	X No	within	n a Wetland?	Yes X	No	_
Wetland Hydrology Preser	nt? Yes	X No	If yes	optional Wetland Sit	te ID:	Wetland 22	
Domarka: (Evalain altarna	tivo proceduros boro er in c	anarata ranart \					
Remarks. (Explain alterna	tive procedures here or in a	i separate report.)					
HYDROLOGY							
Wetland Hydrology India	ators:						
	um of one required; check a	all that apply)			Secondary Indica	tors (minimum of to	wo required)
X Surface Water (A1)	a o. o o oqu ou, o o	X Water-Staine	d Leaves (B9)			Cracks (B6)	
High Water Table (A2	2)	Aquatic Faun	, ,		X Drainage Pa	` '	
Saturation (A3)	.,	Marl Deposits			Moss Trim L		
Water Marks (B1)		X Hydrogen Su				Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhiz		ia Roots (C3)	Crayfish Bur		
Drift Deposits (B3)	32)	· 	Reduced Iron (C4)			isible on Aerial Ima	ageny (CQ)
Algal Mat or Crust (B	4)		Reduction in Tilled			Stressed Plants (D1	
1 - -	4)			Solis (Co)		,	,
Iron Deposits (B5)	Apriol Images (P7)	Thin Muck Su			X Geomorphic		
Inundation Visible on		Other (Explai	n in Remarks)		Shallow Aqu		
Sparsely vegetated t	Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutral	rest (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 0-12				
Water Table Present?	Yes No	X Depth (inch	· —				
Saturation Present?	Yes No	X Depth (inch	,	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)	10310	Z Depart (mon		_ ""	arology r resent.	100	
(moldaes capillary limige)							
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, p	revious inspection	s), if available:			
Remarks:							

/EGETATION - Use scientific names of plants.				Sampling Point: 022-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30	%Cover	Species?	Status	
Populus tremuloides / Quaking aspen	30	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	20	Yes	FACW	Species Across All Strata: 5 (B)
3				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80.0 (A/B)
6				
7				Prevalence Index worksheet:
	50	_ = Total Cov	er er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				OBL species 0 x 1 = 0
Salix discolor / Pussy willow	55	Yes	FACW	FACW species 105 x 2 = 210
2. Fraxinus pennsylvanica / Green ash	15	Yes	FACW	FAC species 0 x 3 = 0
3				FACU species 30 x 4 = 120
4				UPL species 0 x 5 = 0
5				Column Totals: 135 (A) 330 (B)
6				Prevalence Index = B/A = 2.44
7				Hydrophytic Vegetation Indicators:
	70	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	15	Yes	FACW	X 3 - Prevalence Index ≤3.01
2				4 - Morphological Adaptations (Provide supporting
3				
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.				Alle diseases of levels and so along the selection of the
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation of ata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	15	= Total Cov	ver	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
		= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 022-2W

	iption: (Describe to th	e depth nee			or confirm	the abser	ce of indicator	s.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-4	10YR 2/1	100					Clayey loam	-	
4-12	10YR 4/2	80	10YR 5/8	20	C	M	Clayey loam		
	- <u></u> -						·	-	
		,							
¹Type: C=Con	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Pore Lining, M=N	latrix.
Hydric Soil Ir	ndicators:						Indicators	for Problematic Hydric S	Soils³:
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149		Muck (A10) (LRR K, L, MI	
	ipedon (A2)	•	Thin Dark Surfa				· —	Prairie Redox (A16) (LR	•
Black His		•	Loamy Mucky M			,		Mucky Peat or Peat (S3) (· · · ·
	n Sulfide (A4)	•	Loamy Gleyed I		,, _ /			Surface (S7) (LRR K, L)	
	Layers (A5)		X Depleted Matrix					alue Below Surface (S8) (IRRK I)
	Below Dark Surface (A		Redox Dark Sui					Dark Surface (S9) (LRR K	
	rk Surface (A12)		Depleted Dark S					Manganese Masses (F12)	· •
	ucky Mineral (S1)		Redox Depress					nont Floodplain Soils (F19)	
	leyed Matrix (S4)	•	Redox Depress	10110 (1 0)				Spodic (TA6) (MLRA 14	-
	edox (S5)							Parent Material (F21)	+A, 140, 140D)
	Matrix (S6)							Shallow Dark Surface (TF1	2)
	face (S7) (LRR R, ML	DA 140D)						(Explain in Remarks)	2)
Dark Sur	iace (37) (LIKIX IX, IVIL	IVA 143D)						(Explain in Nemarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problen	natic.		
Restrictive I	ayer (if observed):								
Type:	ayer (ii observed).								
Depth (inc	phoe):						Hydric Soil P	resent? Yes X	No
Deptil (ilit							Hyuric Son P	resent! les A	
Remarks:									
F	Root refusal at 12								

Applicant/Owner: ConnectGen LLC State: New York Sampling Point: 023-1U nvestigator(s): Matt Spadoni & Sam Parker Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc): Hillslope Local relief (concave, convex, none): Flat Slope (%): 2-5 Subregion (LRR or MLRA): LRR MLRA 139 Lat: 42.18340955 Long: -79.69210954 Datum: NAD 83 Soil Map Unit Name: Frie silt loam 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 Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.)	Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautau	iqua County	Sampling Date:	07/06/2020
Local relief (concave, convex, none): Subtregion (LRR or MLRA): LRR MLRA 139 Lat: 42.18340955 Long: N90e210954 Datum: NAD 83 Soli Map Unit Name: Erie sitt loam NW classification: Not cla	Applicant/Owner:			,	· · · · · · · · · · · · · · · · · · ·		
Subregion (LRR or MLRA): LRR MLRA 139	Investigator(s):	Matt Spadoni & Sam Parker	Section,	Township, Range:	To	wn of Ripley	
Subregion (LRR or MLRA): LRR MLRA 139	Landform (hillslope, terrace, et	c): Hillslope	Local relief (cond	cave, convex, none):	Flat	Slope	(%): 2-5
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X			Lat: 42.	18340955 Lon	g: -79.692109	54 Datum	n: NAD 83
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No New Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attack site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland Byte ID: **PYDROLOGY** Wetland Hydrology Indicators: **PyThinary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B8) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Moss Tirm Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Livring Roots (C3) Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Agal Mar or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) In In Deposits (B5) Tim Muck Surface (C7) Geomorphic Position (D2) In In In Muck Surface (C7) Geomorphic Position (D2) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wettand Hydrology Present? Yes No X Depth (inches):	Soil Map Unit Name:		Erie silt loam		NWI classification	on:	
Are Vegetation		ions on the site typical for this	time of year? Yes	X No ((If no, explain in Remark	(S.)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrocyptylic Vegetation Present? Yes X No X Weltand Hydrology Present? Yes No X Weltand Hydrology Present? Weltand Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soli Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Mart Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Depth (inches): Water Table Present? Yes No X Depth (inches):	Are Vegetation , Soil	, or Hydrology	significantly disturbe	d? Are "Norma	al Circumstances" prese	ent? Yes X	(No
Hydrophytic Vegetation Present? Yes X No X within a Wetland? Yes No X within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators:	Are Vegetation, Soil	, or Hydrology	naturally problemation	c? (If needed,	explain any answers in	Remarks.)	
Hydric Soil Present? Yes No X Within a Wetland? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X Within a Wetland? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology P	SUMMARY OF FINDING	SS - Attach site map sh	owing sampling p	oint locations, trai	nsects, important	features, etc.	
Hydric Soil Present? Yes No X Within a Wetland? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X Within a Wetland? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology P		-			-		
Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY	, , , ,			-		No X	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Saturation (A3) Mant Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Aquatic Fauna (B13) Trainage Patterns (B10) Moss Trim Lines (B16) Drainage Patterns (B10) Moss Trim Lines (B16) Dray-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Vater Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	*						_
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Deposits (B15) Water Additional Deposits (B15) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X				,,			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record	Remarks: (Explain alternativ	e procedures here or in a sepa	arate report.)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record							
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record							
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	HYDROLOGY						
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)		tore:					
Surface Water (A1)			t annly)		Secondary Indica	ators (minimum of t	wo required)
High Water Table (A2)		Tor one required, check all tha		(R9)		•	wo required)
Saturation (A3)		_		(50)			
Water Marks (B1)	-	_					
Sediment Deposits (B2)	 ' ' '	_	• • • •	· (C1)			
Drift Deposits (B3)	<u> </u>						
Algal Mat or Crust (B4)		_	·-				agery (C9)
Iron Deposits (B5)	l 						
Inundation Visible on Aerial Imagery (B7)	_ ·	_				· ·	,
Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) FAC-Neutral Test (D5) Factor Fac		erial Imagery (B7)	•	•			
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				•			
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					FAC-Neutra	Il Test (D5)	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		V N V	D # (")				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			_ ' '			.,	N. V
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Yes No X	Depth (inches):	wetiand	Hydrology Present?	Yes	No X
	(includes capillary fringe)						
	Describe Recorded Data (st	ream gauge, monitoring well, a	aerial photos, previous ir	nspections), if available:			
Remarks:	(gg-,g		,,,			
Remarks:							
	Remarks:						

GETATION - Use scientific names of plants.				Sampling Point: 023-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	That file OBE, I NOV, OI I NO.
. Betula alleghaniensis / Yellow birch	35	Yes	FAC	Total Number of Dominant
	25			
Fagus grandifolia / American beech		Yes	FACU	Species Across All Strata: 6 (B)
3. Ostrya virginiana / Eastern hop-hornbeam		Yes	FACU	
Acer saccharum / Sugar maple	15	No No	FACU	Percent of Dominant Species
. Prunus serotina / Black cherry	5	No	FACU	That Are OBL, FACW, or FAC: 66.7 (A/E
				Parameter and the description of
·				Prevalence Index worksheet:
	100	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FACW species 30 x 2 = 60
Lindera benzoin / Northern spicebush	10	Yes	FACW	FAC species 95 x 3 = 285
3.		_		FACU species 85 x 4 = 340
				UPL species 0 x 5 = 0
				Column Totals: 210 (A) 685 (E
i.			-	Prevalence Index = B/A = 3.26
,				
·		- Total Cay		Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:)				X 2 - Dominance Test is >50%
. Thelypteris noveboracensis / New york fern	50	Yes	<u>FAC</u>	3 - Prevalence Index ≤3.0¹
2. Solidago canadensis / Canada goldenrod	10	No	FACU	4 - Morphological Adaptations (Provide supporting
S. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Fagus grandifolia / American beech	10	No	FACU	Troblematic Trydrophytic vegetation (Explain)
i. Onoclea sensibilis / Sensitive fern	10	No	FACW	Indicators of hydric coil and wattend hydrology, much
b				¹Indicators of hydric soil and wetland hydrology must
	·			be present, unless disturbed or problematic.
3.		_		Definitions of Vegetation Strata
).				Definitions of vegetation Strata
				T W
0 1.			-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
2		= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
N	90	_ = 10(a) Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
·				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
B				height.
k			_,	
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes X No

SOIL Sampling Point: 023-1U

Depth	ription: (Describe to the Matrix	ie ueptn nee		re indicator	oi confirm tr	e ausend	e oi muicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-8	10YR 3/3	100					Loam	
8-18	10YR 5/4	100			<u> </u>		Loam	
	•					-		
	-							
	•							
	-							
Type: C=Cor	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydric Soils³:
Histosol			Polyvalue Belov	v Surface (S8	8) (I RR R M I	RA 149F		uck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	Thin Dark Surfa	•			· —	Prairie Redox (A16) (LRR K, L, R)
		-				430)		
Black Hi		-	Loamy Mucky N		LKK K, L)			ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed I					urface (S7) (LRR K, L)
	Layers (A5)	<u> </u>	Depleted Matrix					ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11) _	Redox Dark Sui					ark Surface (S9) (LRR K, L)
	rk Surface (A12)	-	Depleted Dark S					anganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)	-	Redox Depress	ions (F8)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic S	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Pa	rent Material (F21)
Stripped	Matrix (S6)						Very Sh	nallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, ML	RA 149B)					Other (Explain in Remarks)
								
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed o	r problema	atic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pre	esent? Yes NoX
Remarks:								
Kernanto.								

Project/Site:	19020 - South Ripley		City/County:	Chautauqua (County	Sampling Date:	07/06/2020
Applicant/Owner:	, , , , , , , , , , , , , , , , , , ,	ConnectGen LLC		•	ate: New York	-	023-1W
• • • • • • • • • • • • • • • • • • • •	Matt Spadoni and Sam F		Section, Township, Ra			vn of Ripley	020 111
Landform (hillslope, terrace,			ief (concave, convex,	_	Concave		(%): 0-3
Subregion (LRR or MLRA):							`
Soil Map Unit Name:			42.10333194	Long	NWI classification		PFO
Are climatic / hydrologic con			Vaa V Na	/If ma	explain in Remark		770
, ,	71	,		` '	•	,	/ No
	oil, or Hydrology				cumstances" prese		(No
	oil, or Hydrology				ain any answers in	•	
SUMMARY OF FINDIN	NGS - Attach site ma	p showing samp	oling point locat	ions, transec	ts, important i	eatures, etc.	
Hydrophytic Vegetation Pr	resent? Yes	X No	Is the San	npled Area			
Hydric Soil Present?	Yes	X No		/etland?	Yes X	No	
Wetland Hydrology Prese	nt? Yes	X No		onal Wetland Site		Wetland 23	_
, 0,							_
Remarks: (Explain alterna	tive procedures here or in	a separate report.)					
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology India	cators:						
Primary Indicators (minim	um of one required; check	all that apply)			Secondary Indica	tors (minimum of to	wo required)
Surface Water (A1)		X Water-Stained	Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2	2)	Aquatic Fauna	(B13)		X Drainage Pa	itterns (B10)	
Saturation (A3)		Marl Deposits ((B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfi	de Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (F	32)	 · ·	spheres on Living Ro	oots (C3)	Crayfish Bur		
Drift Deposits (B3)	/	X Presence of Re		(,		isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	4)		eduction in Tilled Soils	: (C6)		tressed Plants (D1	
Iron Deposits (B5)	7)	Thin Muck Surf		(00)	X Geomorphic	,	,
	Aprial Imagan, (P7)	Other (Explain					
Inundation Visible on		Other (Explain	iii Keiliaiks)		Shallow Aqu		
Sparsely vegetated t	Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	rest (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inches	3).				
Water Table Present?	Yes No	X Depth (inches					
Saturation Present?	Yes No	X Depth (inches		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)	165 NO _	Deptil (illicites	o)	vvetiana nyu	lology Fresent:	163 <u>X</u>	
(includes capillary inlige)							
Describe Recorded Data	stream gauge, monitoring	well aerial photos pre	evious inspections) if	available.			
Boothibo Hoodidad Bata (ou our gaago, mormoring	won, donar priotos, pri	ovious inspections, in	available.			
Remarks:							
i .							

solute Cover 30 30 25 25	Dominant Species? Yes Yes Yes Yes Yes	Indicator Status FAC FACU FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
30 30 25 25	Species? Yes Yes Yes Yes Yes	FACU FACU	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
30 30 25 25	Species? Yes Yes Yes Yes Yes	FACU FACU	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
30 30 25 25	Species? Yes Yes Yes Yes Yes	FACU FACU	Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species
30 30 25 25	Yes Yes Yes Yes	FACU FACU	Species Across All Strata: 8 (B) Percent of Dominant Species
30 25 25	Yes Yes Yes	FACU FACU	Species Across All Strata: 8 (B) Percent of Dominant Species
25 25	Yes Yes	FACU	Percent of Dominant Species
25	Yes		·
		FACO	·
			That Are OBL, FACW, or FAC: 62.5 (A/I
		· 	Prevalence Index worksheet:
		· 	Total % Cover of: Multiply by:
110	= Total Cove	er	OBL species 15 x 1 = 15
			· — — — — — — — — — — — — — — — — — — —
	. —		FACW species 110 x 2 = 220
		FACW	FAC species 30 x 3 = 90
			FACU species 85 x 4 = 340
			UPL species 0 x 5 = 0
			Column Totals: <u>240</u> (A) <u>665</u> (I
			Prevalence Index = B/A = 2.77
30	= Total Cove	er	Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
35	Yes	FACW	X 2 - Dominance Test is >50%
			X 3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
			¹Indicators of hydric soil and wetland hydrology must
		FACU	be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
100	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
			ŭ
0	= Total Cove	er	Hydrophytic
	,		Vegetation
			Present? YesX No
	30 35 20 15 15 10 5	30 = Total Cove 35	10 Yes FACW

SOIL Sampling Point: 023-1W

Depth	iption: (Describe to the Matrix		Redox	k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10YR 3/1	90	10YR 5/8	10	С	PL	Loam			
10-18	10YR 5/2	80	10YR 5/6	20	С	PL,M	Loamy clay			
			-							
			-							
			-							
			-							
Type: C=Cond	centration, D=Depletion	, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=M	atrix.
lydric Soil In	dicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol (Polyvalue Belov	v Surface (S	3) (LRR R ,	MLRA 149) (LRR K, L, ML	
	pedon (A2)		Thin Dark Surfa						edox (A16) (LRI	•
Black His			Loamy Mucky N			,			at or Peat (S3)	
	Sulfide (A4)		Loamy Gleyed I		, ,			-	7) (LRR K, L)	
	Layers (A5)		X Depleted Matrix					-	Surface (S8)	LRR K. L)
_	Below Dark Surface (A	11)	Redox Dark Sui						ce (S9) (LRR K	
	rk Surface (A12)	,	Depleted Dark S						Masses (F12)	
	ucky Mineral (S1)		Redox Depress					-	plain Soils (F19)	
_	eyed Matrix (S4)			.00 (. 0)					A6) (MLRA 144	
Sandy Re	• • • •							Parent Mat	· ·	., ., .,, .,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Matrix (S6)								ark Surface (TF1	2)
	face (S7) (LRR R, MLF	2Δ 149R)							n Remarks)	2)
Bank Gan	doc (07) (ERRIN, III.E)	(A 140D)						(Explain ii	r remarks)	
Indicators of h	nydrophytic vegetation a	and wetland	d hydrology must be p	resent, unles	s disturbed	or problen	natic.			
Restrictive La	ayer (if observed):									
	ayer (ii observea).									
							Hydric Soil P	resent?	Yes X	No
Type:	thes):									
	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
Type: Depth (inc	hes):									
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Type: Depth (inc	hes):									
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Type: Depth (inc	hes):									
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Type: Depth (inc	rhes):									
Type: Depth (inc	rhes):									
Type: Depth (inc	rhes):									
Type: Depth (inc	rhes):									

Project/Site:	19020 - So	uth Ripley	City/Cou	unty:	Chautauqua C	County	Sampling Date:	07/06/2020
Applicant/Owner:			ctGen LLC	,		ite: New York		024-1U
Investigator(s):		, SPF	Section.	Township, Rai			vn of Ripley	
Landform (hillslope, terrac			Local relief (cond	· ·		Convex		(%): 4
Subregion (LRR or MLRA				.18405659	Long:	-79.694043		()
Soil Map Unit Name:			Erie silt loam			NWI classification		
Are climatic / hydrologic o				X No.	(If no	explain in Remark		
, ,			significantly disturbe		` ′	cumstances" prese	,	(No
			naturally problemation			in any answers in		
SUMMARY OF FINE					•	•	•	
		-			·	is, important	leatures, etc.	
Hydrophytic Vegetation	Present?		No X	Is the Samp				
Hydric Soil Present?			No X	within a We			No <u>X</u>	=
Wetland Hydrology Pre	esent?	Yes	No X	If yes, option	nal Wetland Site	: ID:		
Remarks: (Explain alte	rnative procedures I	here or in a separa	ate report.)					
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min		ed: check all that a	innly)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1	•		Vater-Stained Leaves	(B9)			Cracks (B6)	no roquirou)
High Water Table	•		quatic Fauna (B13)	(55)			atterns (B10)	
Saturation (A3)	(/ L)		Marl Deposits (B15)			Moss Trim L		
Water Marks (B1)			lydrogen Sulfide Odoi	r (C1)			Water Table (C2)	
Sediment Deposits	e (B2)		oxidized Rhizospheres		ote (C3)	Crayfish Bu		
Drift Deposits (B3)	` '		resence of Reduced	-	ns (C3)		isible on Aerial Ima	ageny (CQ)
Algal Mat or Crust			Recent Iron Reduction	. ,	(C6)		Stressed Plants (D1	
1 -					(00)		•	,
Iron Deposits (B5)			hin Muck Surface (C7				Position (D2)	
	on Aerial Imagery (Other (Explain in Rema	arks)		Shallow Aqu		
Sparsely vegetate	ed Concave Surface	(DO)				FAC-Neutra	aphic Relief (D4)	
				1		TAC-Neutra	riest (D3)	
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 Hydr	ology Present?	Yes	No X
(includes capillary fring	e)							
Describe Recorded Da	ta (stream gauge, n	nonitoring well, aer	rial photos, previous ir	nspections), if a	available:			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: 024-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Populus tremuloides / Quaking aspen	40	Yes	FACU	Total Number of Dominant
Malus / Apple	20	Yes	17.00	Species Across All Strata: 6 (B)
^				Opecies Across Air Strata.
			 	Persont of Deminent Charles
4				Percent of Dominant Species
5		_		That Are OBL, FACW, or FAC: 0.0 (A/B)
6	-	_		Prevalence Index worksheet:
7				
	60	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				
Lonicera morrowii / Morrow's honeysuckle	30	Yes	FACU	FACW species 0 x 2 = 0
2. Rubus idaeus / Common red raspberry	15	Yes	FACU	FAC species 0 x 3 = 0
3. Malus / Apple	15	Yes		FACU species145 x 4 =580
4.				UPL species 10 x 5 = 50
5.				Column Totals: <u>155</u> (A) <u>630</u> (B)
6.				Prevalence Index = B/A = 4.06
7				
1.	60	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			Ci.	1 - Rapid Test for Hydrophytic Vegetation
	60	Voc	EACH	2 - Dominance Test is >50%
Solidago altissima / Canada goldenrod		Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Fragaria vesca / Wild strawberry, Wood strawberry	10	No	UPL	4 - Morphological Adaptations (Provide supporting
3		_	- 	Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, unless distarbed of problematic.
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
·	70	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)			.	
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				
2.		_		Woody vines - All woody vines greater than 3.28 ft in
3.	-			height.
4			- · · · · · · · · · · · · · · · · · · ·	
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL
Sampling Point: 024-1U
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(inches)	Color (moist)	%	Redox Color (moist)	%	Type ¹	Loc²	Texture		Remark	ks
0-6	10 yr 4/4	100					Sandy loam			
	_									
<u>.</u>										
				_						
/pe: C=Conc	entration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	nins.		²Locati	on: PL=Po	ore Lining, M	Л=Matrix.
dric Soil Ind	licators:						Indicators	for Proble	matic Hydr	ric Soils³:
Histosol (A			Polyvalue Belov	v Surface (S8) (LRR R.	MLRA 149			-	, MLRA 149B)
Histic Epip	·		Thin Dark Surfa	•						(LRR K, L, R)
Black Histi			Loamy Mucky N			1430)	·			
_	Sulfide (A4)		Loamy Gleyed I		LIXIX IX, L)					3) (LRR K, L, R)
_	ayers (A5)								7) (LRR K,	
_	• • •	(11)	Depleted Matrix							B (LRR K, L)
_	Below Dark Surface (A	X11)	Redox Dark Sui	. ,					e (S9) (LR	
_	Surface (A12)		Depleted Dark S					-	-	(2) (LRR K, L, R)
_	cky Mineral (S1)		Redox Depress	ions (F8)						19) (MLRA 149B)
_	eyed Matrix (S4)						·			144A, 145, 149B
_ Sandy Red								arent Mate		
Stripped M	1atrix (S6)						Very S	hallow Da	rk Surface (TF12)
_ Dark Surfa	ace (S7) (LRR R, ML	RA 149B)					Other (Explain in	Remarks)	
ndicators of h	ydrophytic vegetation	and wetland	hydrology must be n	resent unles	s disturbed	or problem	natic			
		ana wettana	Trydrology mast be p	Tesent, ames		or problem	iduo.			
actrictiva I av	vei (ii observeu).									
estrictive Lay	, . (,						Uhadaia Oail Bar		Vaa	No. V
Туре:									Yes	No X
-			_				Hydric Soil Pre	esent?		
Type:							Hydric Soil Pre	esent?		
Type:			_				Hydric Soil Pre	esent?		
Type:	nes):						Hydric Soil Pre	esent?		
Type:	nes):						Hydric Soil Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type: Depth (inch	nes):						Hydric Soli Pre	esent?		
Type: Depth (inch	nes):						Hydric Soli Pre	esent?		
Type: Depth (inch	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type:	nes):						Hydric Soli Pre	esent?		
Type: Depth (inch	nes):						Hydric Soli Pre	esent?		

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/06/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	· ·	ate: New York		024-1W
· · · · · · · · · · · · · · · · · · ·	Matt Spadoni & Sam Pa		Section, Township, I			vn of Ripley	
	, etc): Valley botto		lief (concave, conve		Concave	. ,	(%): 0-3
	LRR R MLRA 139						` '
	ERRETURE TO		12.10000011		NWI classification		PFO
	nditions on the site typical for		Voc Y N	lo (If no	_ rtwr classification _ explain in Remark		10
, ,	Soil, or Hydrology	,		`	cumstances" prese	,	(No
	Soil , or Hydrology				ain any answers in		<u> </u>
					-	•	
SUMMART OF FINDS	NGS - Attach site ma			tions, transec	cts, important	reatures, etc.	
Hydrophytic Vegetation F	Present? Yes	X No		mpled Area			
Hydric Soil Present?	Yes	X No	within a	Wetland?	Yes X	No	_
Wetland Hydrology Prese	ent? Yes	X No	_ If yes, op	tional Wetland Site	e ID:	Wetland 24	
Domarka: (Evalain altern	ativo procedures boro er in s	opporate report \					
Remarks. (Explain altern	ative procedures here or in a	i separate report.)					
HYDROLOGY							
Wetland Hydrology Ind	cators:						
	num of one required; check a	all that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)	<u> </u>	X Water-Stained	Leaves (B9)			Cracks (B6)	
High Water Table (A		Aquatic Fauna	` '		X Drainage Pa		
Saturation (A3)	-/	Marl Deposits			Moss Trim L		
Water Marks (B1)		X Hydrogen Sulf	•			Water Table (C2)	
X Sediment Deposits	(B2)		ospheres on Living F	Poots (C3)	Crayfish Bu		
Drift Deposits (B3)	,DZ)		educed Iron (C4)	(0018 (03)		/isible on Aerial Ima	ageny (CQ)
Algal Mat or Crust (I	D4\		eduction in Tilled Soi	la (C6)		Stressed Plants (D1	
Iron Deposits (B5)	34)			is (CO)		,	,
	n Aorial Imagan, (P7)	Thin Muck Sur				Position (D2)	
	n Aerial Imagery (B7)	Other (Explain	in Remarks)		Shallow Aqu		
Sparsely vegetated	Concave Surface (B8)					aphic Relief (D4)	
					FAC-Neutra	i iesi (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inche	s):				
Water Table Present?	Yes No	X Depth (inche	• ———				
Saturation Present?	Yes No	X Depth (inche	<i>'</i> — — —	Wetland Hvd	Irology Present?	Yes X	No
(includes capillary fringe)							
(95)							
Describe Recorded Data	(stream gauge, monitoring v	vell, aerial photos, pr	revious inspections),	if available:			
Remarks:							

EGETATION - Use scientific names of plants.				Sampling Point:024-1W
<u> </u>				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(1)
1. Fagus grandifolia / American beech	20	Yes	FACU	Total Number of Dominant
2. Acer rubrum / Red maple	20	Yes	FAC	
•				Species Across All Strata: 5 (B)
3. Populus tremuloides / Quaking aspen	15	Yes	FACU	
4. Acer saccharum / Sugar maple	10	No	<u>FACU</u>	Percent of Dominant Species
5			- 	That Are OBL, FACW, or FAC: 60.0 (A/B)
S				
7				Prevalence Index worksheet:
	65	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1				FACW species 50 x 2 = 100
2.				FAC species 20 x 3 = 60
_				FACU species 45 x 4 = 180
			 	UPL species 0 x 5 = 0
ł				Column Totals: 115 (A) 340 (B)
5.				Prevalence Index = B/A = 2.96
5				Trotalono mada Birt
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	30	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Onoclea sensibilis / Sensitive fern	20	Yes	FACW	
3.				4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
-				
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
7				
3.				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	50	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Noody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				
3.			 	Woody vines - All woody vines greater than 3.28 ft in height.
4.				neight.
*·		T-4-1 O-1		Undershie
	0	_ = Total Cov	er	Hydrophytic
				Vegetation Present? YesX No

SOIL Sampling Point: 024-1W

Depth	ription: (Describe to the Matrix	<u> </u>		k Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10YR 2/1	90	10YR 5/8	10	С	PL	Mucky loam			
10-18	5Y 5/1	90	10YR 5/8	10	С	PL				
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, M=M	1atrix.
lydric Soil I	ndicators						Indicators	for Proble	ematic Hydric S	Soilo3:
-			Dobarduo Bolov	v Curfoso (C)	0) // DD D	MI DA 440			-	
Histosol			Polyvalue Belov) (LRR K, L, M	•
	pipedon (A2)		Thin Dark Surfa			(149B)			dox (A16) (LR	
	stic (A3)		Loamy Mucky N		(LRR K, L)		· · · · · · · · · · · · · · · · · · ·		t or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed I					•	7) (LRR K, L)	" DD 14 1.
	d Layers (A5)		X Depleted Matrix						Surface (S8) (
	d Below Dark Surface (A	A11)	Redox Dark Sui				· · · · · · · · · · · · · · · · · · ·		ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)			· · · · · · · · · · · · · · · · · · ·			(MLRA 149B)
	Gleyed Matrix (S4)									4A, 145, 149B)
	Redox (S5)							Parent Mate		10)
	Matrix (S6)	DA 440D)							rk Surface (TF1	12)
Daik Su	rface (S7) (LRR R, ML	-KA 143D)					Other	(Explain iii	Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problen	natic.			
			-			-				
	ayer (if observed):									
Type:	1 \									
Depth (in	ches):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										

	19020 -	South Ripley	Cit	y/County:	Chautauqua C	County	Sampling Date:	07/07/2020
Project/Site: Applicant/Owner:			nectGen LLC		· ·	ate: New York		025-1U
Investigator(s):		er & Matt Spadoni		ction, Township, R			wn of Ripley	020 .0
Landform (hillslope, terrad				(concave, convex,		Convex		(%): 3-5
Subregion (LRR or MLRA		R R MLRA 139	Lat:	•	Long:	-79.678289 ⁻		`
Soil Map Unit Name:	· —		Erie silt loam	12.17000100		NWI classification	-	10.00
Are climatic / hydrologic c				e Y No	(If no	explain in Remark		
, ,			significantly dis			cumstances" prese	•	No X
			naturally probl			in any answers in		110X
					•	-		
SUMMARY OF FINE	JINGS - Atta	en site map si	lowing sampli	ng point locat	ions, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation	Present?	Yes		Is the San	npled Area			
Hydric Soil Present?		Yes	NoX	within a V	/etland?	Yes	NoX	<u>-</u>
Wetland Hydrology Pre	esent?	Yes	NoX	If yes, opti	onal Wetland Site	e ID:		
Remarks: (Explain alter	rnative procedure	es here or in a sep	arate report.)					
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min		uired; check all tha					ators (minimum of ty	vo required)
Surface Water (A1	,	_	Water-Stained Le	` '			I Cracks (B6)	
High Water Table	(A2)	_	Aquatic Fauna (B				atterns (B10)	
Saturation (A3)		_	Marl Deposits (B	•		Moss Trim L	, ,	
Water Marks (B1)			Hydrogen Sulfide				Water Table (C2)	
Sediment Deposits	s (B2)	_	Oxidized Rhizosp	heres on Living Ro	oots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3))	_	Presence of Red	uced Iron (C4)		Saturation \	isible on Aerial Ima	gery (C9)
Algal Mat or Crust	(B4)	_	Recent Iron Redu	ction in Tilled Soils	s (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5))		Thin Muck Surface	ce (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Image	ry (B7)	Other (Explain in	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surfa	ace (B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
					<u> </u>			
i .								
Field Observations:			Depth (inches):					
Field Observations: Surface Water Present	? Yes							
	? Yes	No X No X	Depth (inches):					
Surface Water Present	•		Depth (inches): Depth (inches):		Wetland Hydr	rology Present?	Yes	No X
Surface Water Present' Water Table Present?	Yes Yes	No X	<u> </u>		Wetland Hydi	rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present?	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No <u>X</u>
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	NoX
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X
Surface Water Present' Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	Yes Yes e)	No X No X	Depth (inches):			rology Present?	Yes	No X

EGETATION - Use scientific names of plants.				Sampling Point: 025-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That Are OBL, FACW, or FAC.
1.	70 COVE	<u>opedes:</u>	Status	Total Number of Deminant
0		_		Total Number of Dominant
2.		_		Species Across All Strata: 3 (B)
3.				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Dravalance Index weekshoots
7				Prevalence Index worksheet:
	0	_ = Total Cov	er er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2				FAC species 15 x 3 = 45
3				FACU species 90 x 4 = 360
4.				UPL species 0 x 5 = 0
5.				Column Totals:105 (A)405 (B)
6				Prevalence Index = B/A = 3.86
-			<u> </u>	
1.		= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ = 10(a) COV	CI	1 - Rapid Test for Hydrophytic Vegetation
	0.5	Vaa	FACIL	2 - Dominance Test is >50%
Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	25	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Phleum pratense / Common timothy, Cultivated timothy		Yes	FACU	4 - Morphological Adaptations (Provide supporting
3. Trifolium pratense / Red clover	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Tragopogon dubius / Goat's beard, Yellow salsify	15	No	<u>FACU</u>	
5. Solidago rugosa / Wrinkle-leaf goldenrod	15	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
6. Trifolium repens / White clover	10	No	FACU	be present, unless disturbed or problematic.
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	-			breast height (DBH), regardless of height.
12.				
<u> </u>		= Total Cov	/er	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)	100	_ = 10tai 001	Ci	
				Herb - All herbaceous (non-woody) plants, regardless of
1.		_		size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.		_		height.
4				
	0	_ = Total Cov	er er	Hydrophytic
				Vegetation
				Present? Yes NoX
				<u> </u>
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 025-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 5/3 100 0-18 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautaugu	a County	Sampling Date:	07/07/2020
Applicant/Owner:		ctGen LLC	•	State: New York		025-1W
	Matt Spadoni & Sam Parker		Township, Range:	Tov	wn of Ripley	
Landform (hillslope, terrace, etc			ave, convex, none):	Concave	Slope ((%): 2-5
Subregion (LRR or MLRA):			17613714 Long:			` '
Soil Map Unit Name:		Erie silt loam		NWI classification		EM
Are climatic / hydrologic conditi			X No (If n	 no, explain in Remark	-	
Are Vegetation X, Soil	,,			Circumstances" prese	•	No
	, or Hydrology			plain any answers in		
SUMMARY OF FINDING				•	•	
					100101100, 0101	
Hydrophytic Vegetation Pres Hydric Soil Present?	ent? Yes X Yes X	No	Is the Sampled Area within a Wetland?	Voc. V	No	
*		No		Yes X	No Wetland 25	•
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland S	Sile ID.	Welland 25	
Remarks: (Explain alternative This is an active	e procedures here or in a separ e hay field	ate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
Primary Indicators (minimum	of one required; check all that	apply)		Secondary Indica	ators (minimum of tw	vo required)
Surface Water (A1)	,	Water-Stained Leaves ((B9)		l Cracks (B6)	
High Water Table (A2)	 ,	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)	<u> </u>	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	$\overline{\mathbf{x}}$	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Reduced In		Saturation \	/isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	<u> </u>	Recent Iron Reduction i	in Tilled Soils (C6)		Stressed Plants (D1)	
Iron Deposits (B5)	 .	Thin Muck Surface (C7))	X Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	rks)	Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor	ncave Surface (B8)		·	Microtopogr	aphic Relief (D4)	
				X FAC-Neutra	I Test (D5)	
Field Observations						
Field Observations: Surface Water Present?	Yes No X	Donth (inches):				
		Depth (inches):				
Water Table Present? Saturation Present?		Depth (inches):	Wetland U	udralagu Dragant?	Voc. V	No
	Yes NoX	Depth (inches):	welland ny	ydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (str	eam gauge, monitoring well, ae	rial photos, previous in	spections), if available:			
Remarks:						
Nemarks.						

Absolute Dominant Indicator Species? Status Total Number of Dominant Species Number of Dominant Species Across All Stratis:	VEGETATION - Use scientific names of plants.				Sampling Point: 025-1W
Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 1 (A)					Dominance Test worksheet:
Absolute Dominant Indicator Indicators That Are OBL, FACW, or FAC: 1					
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 1		Absoluta	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata:	Troe Stratum (Diet eize: 20				That Ale OBL, FACW, OF FAC.
Species Across All Strata:		70COVEI	_ Species :	Status	Total Neural and F Department
3					
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)					Species Across All Strata: (b)
That Are OBL, FACW, or FAC:	· · · · · · · · · · · · · · · · · · ·				
Providence Index worksheet: Total % Cover of:					·
Prevalence index worksheet: Total % Cover of: Multiply by: Total Cover of: Mul					That Are OBL, FACW, or FAC: 100.0 (A/B)
Total & Cover of:	6				e landamandakan
Saping/Shrub Stratum (Plot size:	7				
FACW species 80 x 2 = 160 FAC species 0 x 3 = 0 FAC species 0 x 3 = 0 FAC species 0 x 3 = 0 FAC species 0 x 4 = 0 UPL species 0 x 5 = 0		0	_ = Total Cove	er	
2. 3. 4. 4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 80	Sapling/Shrub Stratum (Plot size: 15)				· ————
2.	1				
A.					· — — — — — — — — — — — — — — — — — — —
4. Column Totals: 110 (A) 190 (B) Prevalence Index = B/A = 1.73 (B) Frevalence Index = B/A = 1.73 (B) Column Totals: 110 (A) 190 (B) Prevalence Index = B/A = 1.73 (B) Frevalence Index =	3.				
Column Totals:				-	UPL species 0 x 5 = 0
Prevalence Index = B/A = 1.73	E				Column Totals:110 (A)190 (B)
7. Herb Stratum (Plot size: 5)	•			-	Prevalence Index = B/A = 1.73
D Float Cover Trysthophytic Vegetation X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptation* A - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* X 4 - Morphological Adaptation* A -					
Herb Stratum (Plot size: 5)	1		- Total Cov		Hydrophytic Vegetation Indicators:
1. Phalaris arundinacea / Reed canarygrass, Reed canarygrass 80 Yes FACW 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Scirpus atrovirens / Green bulrush 4. Selfupus atrovirens / Green bulrush 5. Selfupus atrovirens / Green bulrush 6. Selfupus atrovirens / Green bulrush 7. Selfupus atrovirens / Green bulrush 8. Selfupus atrovirens / Green bulrush 9. Selfupus atrovirens / Green bulrush 10. Selfupus atrovirens / Green bulrush 10. Selfupus atrovirens / Green bulrush 10. Selfupus atrovirens / Green bulrush 11. Selfupus atrovirens / Green bulrush 12. Selfupus atrovirens / Green bulrush 13. Selfupus atrovirens / Green bulrush 14. Selfupus atrovirens / Green bulrush 15. Selfupus atrovirens / Green bulrush 16. Selfupus atrovirens / Green bulrush 17. Selfupus atrovirens / Green bulrush 18. Selfupus dataptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 -	Hart Otation (District		10(a) 00%	er	X 1 - Rapid Test for Hydrophytic Vegetation
2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Scirpus atrovirens / Green bulrush 4.		00	Vae	E4 014/	X 2 - Dominance Test is >50%
2. Carex Vulpinologia I Fox sedge, Brown fox sedge 3. Scirpus atrovirens / Green bulrush 4. 5. 6. 7. 8. 9. 10. 10. 11. 12. 12. 110. 110. 12. 110. 110					X 3 - Prevalence Index ≤3.0¹
3. Scirpus atrovirens / Green buirusn 4					
4	3. Scirpus atrovirens / Green bulrush	10	No	OBL	
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	4				
be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	5				1Indicators of hydric soil and wetland hydrology must
7	6				
8	-			<u></u>	be present, unless disturbed or problematic.
9	0				Definitions of Varietation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	0				Delilitions of vegetation strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation				-	Total Mandy plants 2 in 17.6 am) or more in diameter at
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:	11				
Woody Vine Stratum (Plot size:30) 1	12				
Woody Vine Stratum (Plot size: 30) 1.	12.		- Total Cov		
1	Mandy Vina Stratum (Platiciza) 30	110	_ = 10(a) 00%	5 1	
2	4				
3					
4	2				
= Total Cover	3				height.
Vegetation Present? Yes X No	4				
Present? Yes X No		0	_ = Total Cove	er	
					Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)					

Color (moles) Su Color (moles) Su Color (moles) Su Color Texture Remarks	Depth	ription: (Describe to th Matrix			c Features				-		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. ydric Soil Indicators: Histosol (A1)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
Address of the problematic state of the proble	0-18	10YR 2/1	85	10YR 5/6	15	С	PL,M	Clay			
Address of the problematic state of the proble					_						
Address of the problematic state of the proble											
Address of the problematic state of the proble									. ,		
Address of the problematic state of the proble											
Address of the problematic state of the proble			-								
Address of the problematic state of the proble											
Address of the problematic state of the proble											
Address of the problematic state of the proble		-									
Address of the problematic state of the proble							 -				
Address Soil Indicators: Histosol (A1)									-		
Address of the problematic state of the proble						-					
Address of the problematic state of the proble	Type: C=Cor	centration, D=Depletion	n. RM=Red	uced Matrix. MS=Masl	ed Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=M	atrix.
Histosol (A1)											
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	ydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric S	Soils³:
Black Histic (A3)	Histosol	(A1)		Polyvalue Belov	v Surface (S8	B) (LRR R	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L, ML	_RA 149B)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes X No	Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	A 149B)	Coas	t Prairie Re	edox (A16) (LRI	R K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes X No	Black Hi	stic (A3)		Loamy Mucky M	1ineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11)	Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Thick Dark Surface (A12)	Stratified	Layers (A5)		Depleted Matrix	(F3)			Poly	alue Belov	V Surface (S8)	LRR K, L)
Thick Dark Surface (A12)	Depleted	Below Dark Surface (A	A11)					Thin	Dark Surfa	ce (S9) (LRR K	, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No			,								
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									-		
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Microticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No		• • • • • • • • • • • • • • • • • • • •			(-)						
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No		• • •									,,,
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes _X No											2)
estrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches):			DA 140R)								۷)
Estrictive Layer (if observed): Type:	Daik Sui	lace (SI) (LIKK K, ML	.IXA 143D)						i (Explaiii ii	i itelilaiks)	
Estrictive Layer (if observed): Type:	Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	l or problema	atic.			
Type:	D 4 - 1 - 4 ! 1	('# - b 1).									
Depth (inches): Hydric Soil Present? Yes X No		ayer (if observed):									
emarks:	Depth (in	ches):						Hydric Soil P	resent?	Yes X	
	emarks.										
	iomanio.										

Project/Site:	19020	- South Ripley		City/Cou	inty:	Chautauqua	County	Sampling Date:	07/07/2020
Applicant/Owner:			nnectGen LLC	. ,	, <u> </u>	•	tate: New York	· · ·	026-1U
Investigator(s):		adoni & Sam Parke		Section,	Township, Rai	nge:	To	wn of Ripley	
Landform (hillslope, terrace				-	ave, convex, r		Convex	. ,	: (%): 3-5
Subregion (LRR or MLRA):		RR R MLRA 139	Lat:		17558014	Long:			` '
Soil Map Unit Name:			Ashville silt loa				NWI classificati		
Are climatic / hydrologic co	nditions on th	e site typical for thi			X No	(If no	– , explain in Remarl		
Are Vegetation,		7.	,				cumstances" pres	•	X No
Are Vegetation,							ain any answers ir		
SUMMARY OF FIND							•	•	
Hydrophytic Vegetation F		-					,p		
Hydric Soil Present?	resent?	Yes Yes			Is the Samp within a We		Voo	No. V	
	ont?			_			Yes	No <u>X</u>	_
Wetland Hydrology Pres	entr	Yes	NO	_	ii yes, optioi	nal Wetland Sit	e ib		
Remarks: (Explain altern	ative proced	ures here or in a se	parate report.)						
HYDROLOGY									
Wetland Hydrology Ind	icators:								
Primary Indicators (minir	num of one re	equired; check all th	nat apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)			Water-Staine	d Leaves	(B9)		Surface So	il Cracks (B6)	
High Water Table (A	۱ 2)		Aquatic Faur	na (B13)			Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposit				Moss Trim	Lines (B16)	
Water Marks (B1)			- Hydrogen Sι	ılfide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhi	zospheres	on Living Roc	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)			Presence of	Reduced I	ron (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron I	Reduction	in Tilled Soils	(C6)	_	Stressed Plants (D	
Iron Deposits (B5)			Thin Muck S	urface (C7)		Geomorphi	c Position (D2)	
Inundation Visible o	n Aerial Imag	jery (B7)	Other (Expla	in in Rema	arks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	Concave Su	rface (B8)	_				Microtopog	raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present?	Vo	s No X	Depth (inch	P6).					
Water Table Present?	Ye:								
Saturation Present?	Ye:		_ ' '	· —		Wotland Hye	Irology Present?	Yes	No X
(includes capillary fringe)		NO	Deptil (ilici			vvetiana nyc	irology Fresent:	163	NOX
(includes capillary ininge)	,								
Describe Recorded Data	ı (stream gau	ge, monitoring well	, aerial photos, ¡	previous in	spections), if a	available:			
Remarks:									
rtomanto.									
1									

VEGETATION - Use scientific names of plants.				Sampling Point: 026-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Fraxinus pennsylvanica / Green ash	30	Yes	FACW	Total Number of Dominant
2. Prunus pensylvanica / Pin cherry	20	Yes	FACU	Species Across All Strata: 8 (B)
3. Crataegus / Hawthorn	15	Yes	FACU	
4		_		Percent of Dominant Species
5		_		That Are OBL, FACW, or FAC: 25.0 (A/B)
6.			-	Prevalence Index worksheet:
7	65	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10(a) 00	Ci	OBL species 0 $x = 0$
1. Lonicera morrowii / Morrow's honeysuckle	20	Yes	FACU	FACW species 30 x 2 = 60
Rubus idaeus / Common red raspberry	15	Yes	FACU	FAC species 25 x 3 = 75
Crataegus / Hawthorn	10	Yes	FACU	FACU species 105 x 4 = 420
4.				UPL species 5 x 5 = 25
5.				Column Totals:165 (A)580 (B)
6.				Prevalence Index = B/A = 3.52
7.				Hydrophytia Vagatetiaa Indiantara
	45	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	25	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Solidago rugosa / Wrinkle-leaf goldenrod	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Fragaria vesca / Wild strawberry, Wood strawberry	5	No	UPL	Problematic Hydrophytic Vegetation¹ (Explain)
4. Toxicodendron radicans / Eastern poison ivy	5	No	FAC	robbeniatio riyarophytic vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.			<u> </u>	. ,
8.		_		Definitions of Vegetation Strata
9.				
10.	_	_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			-	breast height (DBH), regardless of height.
12		= Total Cov	ver	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)		10(a) 000	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.	_	_		Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 026-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/3 100 0-12 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 12

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/07/2020
Applicant/Owner:		ConnectGen LLC	· -	S	tate: New York	Sampling Point:	026-1W
Investigator(s):	Matt Spadoni & Sam Pa	rker	Section, Towns	hip, Range:	To	wn of Ripley	
Landform (hillslope, terrace,				onvex, none):	Concave	Slope	(%): 0-3
Subregion (LRR or MLRA):		Lat:			-79.677453	25 Datun	n: NAD 83
Soil Map Unit Name:		Ashville silt loa	am		NWI classificati	on: F	PEM
Are climatic / hydrologic cond	ditions on the site typical for	this time of year?	Yes X	No (If no	 , explain in Remarl	(S.)	
Are Vegetation X, So	oil , or Hydrology	significant	ly disturbed?	Are "Normal Ci	rcumstances" pres	ent? Yes	K No
	oil, or Hydrology				lain any answers ir	Remarks.)	
SUMMARY OF FINDIN				ocations, transe	cts, important	features, etc.	
Hydrophytic Vegetation Pr		X No		e Sampled Area	•	·	
Hydric Soil Present?		X No		in a Wetland?	Yes X	No	
Wetland Hydrology Preser		X No		s, optional Wetland Si		Wetland 26	=
	tive procedures here or in a periences intermittent mowin						
HYDROLOGY							
Wetland Hydrology Indic	ators:						
, ,	um of one required; check a	Il that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	•	Water-Staine	d Leaves (B9)			il Cracks (B6)	
High Water Table (A2	·.)	Aquatic Faun	ıa (B13)		X Drainage P	atterns (B10)	
Saturation (A3)		Marl Deposits	s (B15)		Moss Trim	Lines (B16)	
Water Marks (B1)		X Hydrogen Su	Ifide Odor (C1)		Dry-Seasor	Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhi	zospheres on Liv	ring Roots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of I	Reduced Iron (C	4)	Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (Ba	4)	Recent Iron F	Reduction in Tille	d Soils (C6)	Stunted or	Stressed Plants (D1	·)
Iron Deposits (B5)		Thin Muck Su	urface (C7)		X Geomorphi	c Position (D2)	
Inundation Visible on		Other (Explai	in in Remarks)		Shallow Aq	, ,	
Sparsely Vegetated C	Concave Surface (B8)					raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	es):				
Water Table Present?	Yes No	X Depth (inch	es):				
Saturation Present?	Yes No	X Depth (inch	es):	Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Described Date (atroom gougo, monitoring u	vall parial photos r	arovious inspecti	ana) if available:			-
Describe Recorded Data (stream gauge, monitoring w	/eii, aeriai priotos, μ	previous inspection	ons), ii avaliable:			
Remarks:							

worksheet: 1 (A) cw, or FAC: 1 (A) cw, or FAC: 1 (B) cw, or FAC: 100.0 (A/B) worksheet: Multiply by: fof: Multiply by: 10 x 1 = 10 90 x 2 = 180 0 x 3 = 0 0 x 4 = 0 0 x 5 = 0
Common
EW, or FAC: 1 (A) minant Strata: 1 (B) mt Species EW, or FAC: 100.0 (A/B) worksheet: f of: Multiply by: 10 x 1 = 10 90 x 2 = 180 0 x 3 = 0 0 x 4 = 0 0 x 5 = 0
Strata: 1 (B) Int Species EW, or FAC: 100.0 (A/B) worksheet: of: Multiply by: x 1 = 10 90
Strata: 1 (B) Int Species EW, or FAC: 100.0 (A/B) worksheet: of: Multiply by: x 1 = 10 90
mt Species EW, or FAC: 100.0 (A/B) worksheet: r of: Multiply by: 10
worksheet: 100.0 (A/B) worksheet: 10
worksheet: 100.0 (A/B) worksheet: 10
r of: Multiply by: 10
10
90 x 2 = 180 0 x 3 = 0 0 x 4 = 0 0 x 5 = 0
0 x 3 = 0 0 x 4 = 0 0 x 5 = 0
0 x 4 = 0 0 x 5 = 0
0 x 5 = 0
100 (A) 190 (B)
ndex = B/A =
tation Indicators:
for Hydrophytic Vegetation
e Test is >50%
e Index ≤3.0¹
cal Adaptations (Provide supporting
ydrophytic Vegetation¹ (Explain)
c soil and wetland hydrology must
disturbed or problematic.
etation Strata
etation Strata
s 3 in. (7.6 cm) or more in diameter at
), regardless of height.
oody plants less than 3 in. DBH and
al to 3.28 ft (1 m) tall.
ous (non-woody) plants, regardless of ants less than 3.28 ft tall.
woody vines greater than 3.28 ft in
Yes X No

SOIL Sampling Point: 026-1W

Depth	ription: (Describe to the Matrix			r Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 2/1	90	10YR 5/8	10	С	PL	Clay			
8-18	10Y 2.5/1	90	10YR 5/8	10	C	PL	Organic clay			
	<u> </u>			_			-			
	<u> </u>			_			-			
	. <u> </u>									
	·									
T O. O.		- DM D-d					21	DI	Name Limines NA NA	1 - 4 - i
Type: C=Col	ncentration, D=Depletio	n, RIVI=Real	ced Matrix, MS=Masi	ked Sand Gr	ains.		LOCA	ation: PL=P	Pore Lining, M=M	iatrix.
Hydric Soil I	ndicators:						Indicators	s for Probl	lematic Hydric S	Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (Sa	3) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, MI	LRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	edox (A16) (LR	R K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LRR K, L, R)
X Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	(KRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly\	alue Belov	v Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	Redox Dark Sur				Thin	Dark Surfa	ice (S9) (LRR K	(, L)
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	ions (F8)			·		lplain Soils (F19)	
	Gleyed Matrix (S4)								(MLRA 14	4A, 145, 149B)
	Redox (S5)						_		terial (F21)	
	Matrix (S6)								ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	s disturbed	or problen	natic.			
						•				
	_ayer (if observed):									
Type:	ahaa\.						Uhrdeia Cail D		V V	No
Depth (in	icnes):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020	- South Ripley	Cit	ty/County:	Chautaugua	County	Sampling Date:	07/07/2020
Applicant/Owner:		Con	nectGen LLC	, , <u> </u>		tate: New York		027-1U
Investigator(s):		MS, SPF	Se	ction, Township,	Range:	Tov	wn of Ripley	
Landform (hillslope, terr	race, etc):	Hillslope	Local relief	(concave, conve	x, none):	Convex	Slope	: (%): 6
Subregion (LRR or MLF			Lat:	42.18691828	Long:	-79.671963	24 Datun	n: NAD 83
Soil Map Unit Name:			ents-Udifluvents co	mplex		NWI classification	on:	
Are climatic / hydrologic	conditions on th	e site typical for this	time of year? Ye	s X N	No (If no	 , explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly di	sturbed?	Are "Normal Cir	rcumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally probl	ematic?	(If needed, expl	lain any answers in	Remarks.)	
SUMMARY OF FIN	NDINGS - Atta	ach site map sl	 nowing sampli	ng point loca	ations, transed	cts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X		ampled Area	•		
Hydric Soil Present?		Yes	No X		Wetland?	Yes	No X	
Wetland Hydrology P	resent?	Yes	No X		otional Wetland Sit			=
				,,				
Remarks: (Explain alt	ternative procedu	res here or in a sep	arate report.)					
HYDROLOGY								
	Indicators							
Wetland Hydrology		aguirad: abaak all the	ot apply)			Cocondon, India	store (minimum of t	two required)
Primary Indicators (m Surface Water (A		rquireu, crieck aii tria	Water-Stained Le	20/05 (P0)			ators (minimum of t l Cracks (B6)	wo required)
High Water Table	•		Aquatic Fauna (E	` ,			atterns (B10)	
Saturation (A3)	e (A2)		Marl Deposits (B	•		Moss Trim I		
Water Marks (B1	1)		Hydrogen Sulfide	•			Water Table (C2)	
Sediment Depos	,		Oxidized Rhizosp		Roots (C3)	Crayfish Bu		
Drift Deposits (B			Presence of Red	-	10018 (C3)		/isible on Aerial Ima	agery (C0)
Algal Mat or Cru	•		Recent Iron Redu		nile (C6)		Stressed Plants (D1	
Iron Deposits (B			Thin Muck Surface		113 (00)		Position (D2)	')
I — ' '	le on Aerial Imag	 nery (B7)	Other (Explain in	. ,		Shallow Aqu		
	ated Concave Sur		0 ti. 10. (2xp.ti	· tomanto,			aphic Relief (D4)	
		,				FAC-Neutra		
Field Observations:								
Surface Water Preser		S NoX			-			
Water Table Present?		S NoX	_ ' ' '		-			
Saturation Present?	Yes	s NoX	_ Depth (inches):		Wetland Hyd	drology Present?	Yes	No X
(includes capillary frin	ige)							
Describe Recorded D)ata (stream gauc	ge monitoring well :	aerial photos, previ	ious inspections)	if available:			
Describe recorded B	rata (stream gaug	je, morntornig wen, t	acriai priotos, previ	iodo iriopectiono),	ii avallable.			
Remarks:								

Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: 0	(A) (B) (A/B)
Absolute Dominant Indicator Tree Stratum (Plot size: 30)	(B)
Absolute Dominant Indicator Tree Stratum (Plot size: 30)	(B)
Tree Stratum (Plot size: 30 %Cover Species? Status 1. Total Number of Dominant 2. Species Across All Strata: 3 3. Percent of Dominant Species 5. That Are OBL, FACW, or FAC: 0.0 6. Prevalence Index worksheet: Total % Cover of: Multiply	(B)
1. Total Number of Dominant 2. Species Across All Strata: 3 4. Percent of Dominant Species 5. That Are OBL, FACW, or FAC: 0.0 6. Prevalence Index worksheet: Total % Cover of: Multiply	
2. Species Across All Strata: 3 3. Percent of Dominant Species 5. That Are OBL, FACW, or FAC: 0.0 6. Prevalence Index worksheet: Total % Cover of: Multiply OBL presides Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 OBL presides Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0	
3.	
4. Percent of Dominant Species 5. That Are OBL, FACW, or FAC: 0.0 6. Prevalence Index worksheet: 7. Total % Cover of: Multiply	(A/B)
5. That Are OBL, FACW, or FAC: 0.0 6. Prevalence Index worksheet: 7. Total % Cover of: Multiply	(A/B)
5 That Are OBL, FACW, or FAC:	(A/B)
6. 7. Prevalence Index worksheet: 0	(/
7. Prevalence Index worksheet: 0 = Total Cover OBL energies 0 with a second content of the con	
0 = Total Cover Total % Cover of: Multiply	
ODI pension 0 v4.1	hv.
Sapling/Shrub Stratum (Plot size: 15) USL species X I =	0
1. Salix / Willow 15 Yes FACW species 0 x 2 =	0
2. FAC species 0 x 3 =	0
1 FACU Species 110 x 4 = 4	40
UPL species 0 x 5 =	0
Column Totals: 110 (A)	40 (B)
Drayalana Inday = R/A = 4.0	<u></u> (B)
6	
7. Hudraphytia Varatation Indicators.	
15 = Total Cover Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)	
1. Solidago canadensis / Canada goldenrod 75 Yes FACU 2 - Dominance Test is >50%	
3 - Prevalence Index <3 ()'	
2. Trifolium pratense / Red clover 30 Yes FACU 4 - Morphological Adaptations (Provide s	pporting
3. Cichorium intybus / Chicory 5 No FACU Problematic Hydrophytic Vegetation¹ (Ex	
4	iairi
5	
6.	must
be present, unless disturbed or problematic.	
8 Definitions of Vegetation Strata	
9	
10 Tree - Woody plants 3 in. (7.6 cm) or more in	liameter at
11 breast height (DBH), regardless of height.	
	ODLLand
12. Sapling/shrub - Woody plants less than 3 in. 110 = Total Cover greater than or equal to 3.28 ft (1 m) tall.	JBH and
Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, rec	ardless of
1 size, and woody plants less than 3.28 ft tall.	
2 Woody vines - All woody vines greater than 3	.28 ft in
3 height.	
4.	
0 = Total Cover Hydrophytic	
Present? Yes No	<u> </u>
Vegetation Present? Yes No Remarks: (Explain alternative procedures here or in a separate report.)	<u>(</u>

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10 yr 6/3	100					Sandy			
	10). 0.0						- Curray			
								-		
		·								
										,
¹Type: C=Cond	centration, D=Depletio	n RM=Reduc	ced Matrix MS=Mas	ked Sand Gra	ains -		²l oca	ation: PI =Po	ore Lining, M=Matrix.	
1900.0 0011	Depictio	n, raw racau	oca Matrix, Mo Mas	itea earia eri	JII 10.				ore Emiling, W. Wattik.	
Hydric Soil In	dicatore:						Indicators	for Proble	ematic Hydric Soils3:	
-			5 5.	0 1 101					-	
Histosol ((A1)		Polyvalue Belov				3) 2 cm	Muck (A10) (LRR K, L, MLRA 149E	5)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	dox (A16) (LRR K, L, R)	
Black His	stic (A3)	•	Loamy Mucky N	/lineral (F1)	IRRK I)				t or Peat (S3) (LRR K, L	
		•								• • • •
	n Sulfide (A4)		Loamy Gleyed						7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LRR K, L))
Depleted	Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin	Dark Surfac	e (S9) (LRR K, L)	
	rk Surface (A12)	,	Depleted Dark	` ,					Masses (F12) (LRR K,	I D/
								-		
Sandy Mu	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	nont Floodp	olain Soils (F19) (MLRA 1	49B)
Sandy Gl	eyed Matrix (S4)						Mesi	Spodic (TA	A6) (MLRA 144A, 145 , 1	49B)
Sandy Re	edox (S5)						Red I	Parent Mate	erial (F21)	
	Matrix (S6)								rk Surface (TF12)	
Dark Surf	face (S7) (LRR R, ML	-RA 149B)					Other	r (Explain in	Remarks)	
3Indicators of h	nydronhytic vegetation	and wetland	hydrology must be n	recent unles	e dieturhad	or problems	atic			
³Indicators of h	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
		and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
	nydrophytic vegetation ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
		and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic. Hydric Soil P	resent?	Yes No	<u>x</u> _
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	x
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>X</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>X</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>X</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>x</u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes No	<u>X</u>

Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautauqu	ua County	Sampling Date: 07/07/2020
Applicant/Owner:		nnectGen LLC	· 	State: New York	
Investigator(s):	Matt Spadoni & Sam Parke		Township, Range:		n of Ripley
Landform (hillslope, terrace, e			cave, convex, none):	Concave	1 7
Subregion (LRR or MLRA):	I RR R MI RA 139		.18696424 Long:		· · · /
	Chenango c			NWI classificatio	
	itions on the site typical for thi			no, explain in Remarks	
, ,	ill, or Hydrology	· —		Circumstances" prese	,
	il, or Hydrology	·		xplain any answers in	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			•	·
SUMINIARY OF FINDIN	GS - Attach site map s		oint locations, trans	ects, important i	eatures, etc.
Hydrophytic Vegetation Pre	esent? Yes X	No	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No
Wetland Hydrology Presen	t? Yes X	No	If yes, optional Wetland	Site ID:	Wetland 27
Pomarks: (Evalain alternat	ive procedures here or in a se	parata raport)			
Remarks. (Explain alternat	ive procedures here or in a se	Darate report.)			
HYDROLOGY					
Wetland Hydrology Indic	ators:				
	m of one required; check all th	at apply)		Secondary Indica	tors (minimum of two required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	
High Water Table (A2)		Aquatic Fauna (B13)	(- /	X Drainage Pa	· ·
Saturation (A3)	-	Marl Deposits (B15)		Moss Trim L	
X Water Marks (B1)	_	Hydrogen Sulfide Odor	· (C1)		Water Table (C2)
X Sediment Deposits (B	2)	Oxidized Rhizospheres		Crayfish Bur	·
Drift Deposits (B3)		Presence of Reduced I			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4	<u> </u>	Recent Iron Reduction	, ,		tressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C7		X Geomorphic	` ,
Inundation Visible on	 Aerial Imagery (R7)	Other (Explain in Rema		Shallow Aqu	
Sparsely Vegetated C	- · · · · <u>-</u>	_ Other (Explain in Reme	arico)	X Microtopogra	
opursely regulated o	ondave danade (Bo)			X FAC-Neutral	
				<u> </u>	1001 (20)
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 H	lydrology Present?	Yes X No
(includes capillary fringe)					
- ' ' ' ' '					
Describe Recorded Data (s	stream gauge, monitoring well,	aerial photos, previous ir	spections), if available:		
Remarks:					

/EGETATION - Use scientific names of plants.				Sampling Point: 027-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Salix discolor / Pussy willow	25	Yes	FACW	Total Number of Dominant
2.				Species Across All Strata: 5 (B)
3.				(=)
<u> </u>				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				That Are OBE, I ACW, OF I AC. [A/B]
-				Prevalence Index worksheet:
7		T-4-1 O-1		Total % Cover of: Multiply by:
Opening (Observe Observers (Diet siese 45	25	_ = Total Cov	er	OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15		.,	54 O.47	FACW species 110 x 2 = 220
Salix discolor / Pussy willow	15	Yes	FACW	FAC species $0 \times 3 = 0$
2				
3				FACU species 10 x 4 = 40
4				UPL species 0 x 5 = 0
5				Column Totals: 140 (A) 280 (B)
6.				Prevalence Index = B/A = 2.0
7.				
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	X 2 - Dominance Test is >50%
	25	Yes	FACW	X 3 - Prevalence Index ≤3.01
2. Lysimachia nummularia / Moneywort, Creeping-jenny				4 - Morphological Adaptations (Provide supporting
3. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattail		Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
4. Eupatorium perfoliatum / Common boneset	15	No	FACW	
5. Solidago canadensis / Canada goldenrod	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				be present, unless distarbed of problematic.
8				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				
· -		= Total Cov	er	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)	100	_ 10101 001	OI.	
1				Herb - All herbaceous (non-woody) plants, regardless of
1			<u> </u>	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 3/2	100					Sandy mucky le			
8-18	10YR 3/2	90	10YR 5/8	10	С	PL	Sandy loam			
						,				
				_						
		-								
	· · · · · · · · · · · · · · · · · · ·			_						
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	Matrix.
Hydric Soil I									ematic Hydric	
Histosol	` '		Polyvalue Belov) (LRR K, L, I	•
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (L l	
	istic (A3)		Loamy Mucky N		(LRR K, L)		5 cm l	Mucky Pea	at or Peat (S3)	(LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyva	alue Below	Surface (S8)	(LRR K, L)
Deplete	d Below Dark Surface (A	411)	Redox Dark Su	rface (F6)			Thin [Oark Surfa	ce (S9) (LRR	K, L)
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-N	langanese	Masses (F12)	(LRR K, L, R)
X Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Flood	plain Soils (F19	9) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic	Spodic (T	A6) (MLRA 1	44A, 145, 149B)
X Sandy F	Redox (S5)						Red F	arent Mat	erial (F21)	
Stripped	d Matrix (S6)						Very S	Shallow Da	ark Surface (TF	⁻ 12)
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Other	(Explain in	n 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 (in	nches):						Hydric Soil Pi	resent?	Yes X	No
Remarks:										

Project/Site:	19020) - South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/07/2020
Applicant/Owner:			ConnectGen LLC	. ,	·	•	ate: New York		028-1U
Investigator(s):	Matt Sp	adoni & Sam Par		Section,	Township, Ran	-		wn of Ripley	
Landform (hillslope, terra					ave, convex, no		Convex	Slope	e (%): 0-3
Subregion (LRR or MLR/		RR R MLRA 139			9802772	Long:	-79.761553	61 Datur	n: NAD 83
Soil Map Unit Name:	· -	V	olusia channery s	ilt loam		_	NWI classification	on:	
Are climatic / hydrologic	conditions on t	he site typical for	this time of year?	Yes >	K No	(If no,	explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significant	ly disturbed	i? A		cumstances" prese		X No
Are Vegetation						f needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - At	tach site map	showing san	npling po	oint locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X	· · ·	Is the Samp		, ,	•	
Hydric Soil Present?	TT TOOOTIC:	Yes >	No	_	within a We		Yes	No X	
Wetland Hydrology Pre	esent?		(No	_		al Wetland Site			_
- Trouding Try droidgy Tri		700		_		ar vvotidina oit			
Remarks: (Explain alte Cow graz	ernative proced zing pasture	lures here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators:								
Primary Indicators (min	nimum of one r	equired; check all	that apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A	1)		Water-Staine	d Leaves (I	B9)			l Cracks (B6)	
High Water Table	(A2)		Aquatic Faun	ıa (B13)			Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim I	ines (B16)	
Water Marks (B1))		Hydrogen Su	Ifide Odor ((C1)		Dry-Seasor	Water Table (C2)	
Sediment Deposit	ts (B2)		X Oxidized Rhi	zospheres	on Living Root	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of I	Reduced In	on (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crus	t (B4)		Recent Iron F	Reduction in	n Tilled Soils (C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5	,)		Thin Muck St	urface (C7)			Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imag	gery (B7)	Other (Explai	in in Remar	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetate	ed Concave Sı	urface (B8)					Microtopogi	raphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Present	t? Ye	es No	X Depth (inch	es).					
Water Table Present?			X Depth (inch						
Saturation Present?	Ye		X Depth (inch	· —		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring			Z Bopai (mon			rrottana nya	rology r rocolic	700 //	
(morado dapinar y ming									
Describe Recorded Da	ata (stream gau	uge, monitoring we	ell, aerial photos, p	previous ins	spections), if a	vailable:			
Remarks:									

GETATION - Use scientific names of plants.				
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	Tild(Ale ODE, I AOW, OI I AO.
ee Stratum (Piot Size)	/0CUVCI	эренея:	Status	Total Number of Deminant
				Total Number of Dominant
			- ——	Species Across All Strata: 2 (B)
			- ——	
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size: 15)		_		OBL species x 1 = 15
				FACW species 5 x 2 = 10
				FAC species 0 x 3 = 0
				FACU species 50 x 4 = 200
				UPL species 0 x 5 = 0
				Column Totals: 70 (A) 225 (B)
				Prevalence Index = B/A = 3.21
			- ——	
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				2 - Dominance Test is >50%
Trifolium repens / White clover	50	Yes	FACU	3 - Prevalence Index ≤3.0¹
Juncus effusus / Common bog rush, Soft or lamp rush	15	Yes	OBL	4 - Morphological Adaptations (Provide supporting
Eupatorium perfoliatum / Common boneset	5	No	FACW	1 - · · · · · · · · · · · · · · · · · · ·
				Problematic Hydrophytic Vegetation¹ (Explain)
			-	
			-	¹Indicators of hydric soil and wetland hydrology must
			-	be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
·				breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
	70	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
pody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	_	-		
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				109:11:11
				Present? Yes No X

SOIL Sampling Point: 028-1U

	Matrix			x Features			_		
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	F	Remarks
0-18	10YR 3/3	85	10YR 6/8	15	C	PL,M	Clay		
								-	
							_		
								-	
								-	
							_		
								-	
									
/pe: C=Cond	centration, D=Depletion	ı, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Loca	tion: PL=Pore Lir	ning, M=Matrix.
dric Soil In	dicators:						Indicators	for Problematic	: Hydric Soils³:
Histosol (Polyvalue Belov	v Surface (S8	(IRRR	MI RA 149F			R K, L, MLRA 149B)
_ `	pedon (A2)		Thin Dark Surfa					. , .	A16) (LRR K, L, R)
_								•	
Black His			Loamy Mucky N		LKK K, L)			•	eat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I					Surface (S7) (L	· •
_	Layers (A5)		X Depleted Matrix						ice (S8) (LRR K, L)
_ Depleted	Below Dark Surface (A	.11)	Redox Dark Sui				Thin [Dark Surface (S9) (LRR K, L)
_ Thick Dar	k Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	langanese Mass	es (F12) (LRR K, L, R)
Sandy Mu	ıcky Mineral (S1)		Redox Depress	ions (F8)			Piedn	nont Floodplain S	Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic	Spodic (TA6) (MLRA 144A, 145, 149B
Sandy Re	edox (S5)						Red F	Parent Material (F	⁻ 21)
Stripped I	Matrix (S6)						Very S	Shallow Dark Sur	face (TF12)
_	ace (S7) (LRR R, ML	RA 149B)						(Explain in Rem	
_	, ,	,					_	· -	,
ndicators of h	ydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	d or problema	atic.		
	<i></i>								
	yer (if observed):								
Type:									
Depth (inc	hes):						Hydric Soil P	resent? Ye	s <u>X</u> No
emarks:									
elliaiks.									

Project/Site:	19020 - South Ripley	City/Co	ounty: (Chautaugua Count	:V	Sampling Date:	07/07/2020
		ectGen LLC			New York		028-1W
	Matt Spadoni & Sam Parker		n, Township, Range			wn of Ripley	
Landform (hillslope, terrace, etc			ncave, convex, nor		Concave		(%): 0-3
Subregion (LRR or MLRA):			2.19792646	Long:	-79.761618	•	`
Soil Map Unit Name:		ia channery silt loam			VI classification		PEM
Are climatic / hydrologic condition				(If no, expla		-	
	, or Hydrology			"Normal Circumst		•	No X
	, or Hydrology			needed, explain an	-		
SUMMARY OF FINDING	· · · · · · · · · · · · · · · · · · ·			· ·	-	•	
Hydrophytic Vegetation Prese			Is the Sample				
Hydric Soil Present?	Yes X	No	within a Wetla		Yes X	No	
Wetland Hydrology Present?		No		I Wetland Site ID:		Wetland 28	_
	e procedures here or in a sepa		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HYDROLOGY							
Wetland Hydrology Indicate	ors:						
, 0,	ors: of one required; check all that	t annly)		800	ondary Indio	ators (minimum of t	wo required)
Surface Water (A1)	or one required, offect all tha	Water-Stained Leaves	s (B9)		•	I Cracks (B6)	vvo required)
High Water Table (A2)	_	Aquatic Fauna (B13)	3 (30)	X		atterns (B10)	
Saturation (A3)		Marl Deposits (B15)			Moss Trim L		
Water Marks (B1)	_	Hydrogen Sulfide Odd	or (C1)			Water Table (C2)	
Sediment Deposits (B2)	X	Oxidized Rhizosphere		(C3)	Crayfish Bu		
Drift Deposits (B3)		Presence of Reduced	-		•	/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` ,	6)		Stressed Plants (D1	
Iron Deposits (B5)	_	Thin Muck Surface (C	•	X	Geomorphic	Position (D2)	•
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Rem	narks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor	ncave Surface (B8)				Microtopogr	aphic Relief (D4)	
				X	FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X						
Saturation Present?	Yes No X	Depth (inches):		Netland Hydrolog	v Present?	Yes X	No
(includes capillary fringe)	103 100X	Deptir (mories).		vedana riyarolog	y i rosoni.	100 <u>X</u>	
(morados sapinary imigo)							
Describe Recorded Data (stre	eam gauge, monitoring well, a	erial photos, previous	inspections), if ava	ailable:			
Remarks:							
Remarks.							
i							

0	Dominant Species? = Total Cove	er	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant 3 (B) Percent of Dominant Species 3 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0 OBL species 25 x 1 = 25 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0
O	Species? = Total Cove	Status	Number of Dominant Species 3 (A) Total Number of Dominant 3 (B) Species Across All Strata: 3 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 25 x 1 = 25 FACW species 35 x 2 = 70 70
O	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant 3 (B) Percent of Dominant Species 3 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 25 x 1 = 25 FACW species 35 x 2 = 70 x 2 = 70
O	Species? = Total Cove	Status	Total Number of Dominant 3 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70 x 2 = 70
0	= Total Cove	er	Species Across All Strata: 3 (B) Percent of Dominant Species 100.0 (A/B) That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70 x 2 = 70
0	= Total Cove	er	Species Across All Strata: 3 (B) Percent of Dominant Species 100.0 (A/B) That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70 x 2 = 70
0	= Total Cove	er	Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
0	= Total Cove	er	Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
0	= Total Cove	er	Prevalence Index worksheet: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
0	= Total Cove	er	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
0	= Total Cove	er	Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
	- - -		Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
	- - -		OBL species 25 x 1 = 25 FACW species 35 x 2 = 70
		• (FACW species 35 x 2 = 70
		• (
	-		
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 60 (A) 95 (B)
	-		Prevalence Index = B/A = 1.58
			Frevalence index - D/A - 1.50
			Hydrophytic Vegetation Indicators:
0	_ = Total Cove	∍r	X 1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
25	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
15	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
	- <u>-</u>		Problematic nyurophytic vegetation (Explain)
			41 11 1 I a of building sell and watland hydrology must
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Venetation Charles
			Definitions of Vegetation Strata
			The second secon
		. ———	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
	Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
60	_ = lotal Cove	∌r	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
0	_ = Total Cove	∍r	Hydrophytic
			Vegetation
			Present? Yes X No
	20 15 60	20 Yes 15 Yes 60 = Total Cove	20 Yes FACW 15 Yes FACW 60 = Total Cover

SOIL Sampling Point: 028-1W

Depth	ription: (Describe to the Matrix			r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/2	85	10YR 6/8	15	С	M,PL	Clayey			
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=F	ore Lining, M=	Matrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soile3:
Histosol			Polyvalue Belov	v Surface (S9) (I DD D	MI DA 140E) (LRR K, L, N	
	` '									•
	pipedon (A2)		Thin Dark Surfa						edox (A16) (Li	
	istic (A3)		Loamy Mucky N		LKK N, L)					(LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed N					-	7) (LRR K, L) v Surface (S8)	
	, , ,	۸ 4 4 \	X Depleted Matrix						, ,	
	d Below Dark Surface (A	411)	Redox Dark Sur Depleted Dark S				·		ce (S9) (LRR	
	ark Surface (A12) /lucky Mineral (S1)		Redox Depressi					-		(LRR K, L, R)
	, , ,		Redox Depressi	ions (Fo)			·			9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	(10)
	Matrix (S6)	DA 440D\							ark Surface (TF	12)
Daik Su	rface (S7) (LRR R, ML	.KA 1490)					Other	(Explain i	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	d or problema	atic.			
						·				
	_ayer (if observed):									
Type:	achas):						Uvdria Cail D	*********	Voc V	No
Depth (in	icnes):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020	- South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/07/2020
Applicant/Owner:		. ,	onnectGen LLC	. ,		State: New York			029-1U
Investigator(s):	Matt Sp	adoni & Sam Park		Section, 7	Township, Ran			wn of Ripley	
Landform (hillslope, terra					ave, convex, n	<u> </u>	Convex	Slope	e (%): 0-3
Subregion (LRR or MLRA		RR R MLRA 139		-	9802772	Long:	-79.761553	61 Datur	m: NAD 83
Soil Map Unit Name:	·	V	olusia channery s	ilt loam			NWI classification	on:	
Are climatic / hydrologic o	conditions on th	ne site typical for t	his time of year?	Yes >	K No	(If no,	_ explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significant	y disturbed	i? A		cumstances" prese		X No
Are Vegetation						f needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FINE	DINGS - Att	ach site map	showing san	npling po	oint locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X	· · · · ·	Is the Samp	•	, <u>, , , , , , , , , , , , , , , , , , </u>	•	
Hydric Soil Present?	i i resent:	Yes X	No No	_	within a We		Yes	No X	
Wetland Hydrology Pre	esent?	Yes X		_		al Wetland Sit			_
					, 00, 00				
Remarks: (Explain alte Cow graz	rnative proced ing pasture	ures here or in a s	separate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators:		<u>-</u>					<u>-</u>	
Primary Indicators (min		equired; check all	that apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A1	1)	_	Water-Staine	d Leaves (I	B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)	_	Aquatic Faun	a (B13)			Drainage P	atterns (B10)	
Saturation (A3)		<u>-</u>	Marl Deposits	s (B15)			Moss Trim I	_ines (B16)	
Water Marks (B1)		_	Hydrogen Su	lfide Odor ((C1)		Dry-Seasor	Water Table (C2)	
Sediment Deposit	s (B2)	_	X Oxidized Rhi	zospheres	on Living Roof	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3))	-	Presence of I	Reduced Iro	on (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crust		-			n Tilled Soils (C6)		Stressed Plants (D	1)
Iron Deposits (B5)		-	Thin Muck Su	, ,				Position (D2)	
Inundation Visible	-	- · · ·	Other (Explai	n in Remar	rks)		Shallow Aq	` ,	
Sparsely Vegetate	ed Concave Su	rface (B8)						aphic Relief (D4)	
							FAC-Neutra	ıl Test (D5)	
Field Observations:									
Surface Water Present	? Ye	s No)	X Depth (inch	es):					
Water Table Present?	Ye	s No)	X Depth (inch		_				
Saturation Present?	Ye	s No	X Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	je)			, <u> </u>		-			
Describe Recorded Da	ita (stream gau	ge, monitoring we	ell, aerial photos, p	revious ins	spections), if a	vailable:			
Remarks:									
Remarks.									
1									

GETATION - Use scientific names of plants.				
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:30)	%Cover	Species?	Status	matric obe, more, or mo.
(Flot Size:)	7000.0.	_ орос.сс.	<u> Ciaiac</u>	Total Number of Dominant
				Species Across All Strata: 2 (B)
				Species Across Air Strata.
			- ——	Demont of Dominant Chapter
				Percent of Dominant Species That Are ORL FACW or FAC: 50.0 (A/R)
				That Are OBL, FACW, or FAC: 50.0 (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	0	_ = Total Cov	er	OBL species 15 x 1 = 15
pling/Shrub Stratum (Plot size: 15)				FACW species 5 x 2 = 10
				FAC species 0 x 3 = 0
				FACU species 50 x 4 = 200
				UPL species 0 x 5 = 0
				Column Totals: (A) (B)
				Prevalence Index = B/A = 3.21
		-		
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		-		1 - Rapid Test for Hydrophytic Vegetation
Trifolium repens / White clover	50	Yes	FACU	2 - Dominance Test is >50%
Juncus effusus / Common bog rush, Soft or lamp rush		Yes	OBL	3 - Prevalence Index ≤3.0¹
Eupatorium perfoliatum / Common boneset		No	FACW	4 - Morphological Adaptations (Provide supporting
Eupatonum perionatum / Common poneset		INU	_ FACVV	Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
l			=· ·	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
2.				Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)		=		Herb - All herbaceous (non-woody) plants, regardless of
(1.101.0.1201.				size, and woody plants less than 3.28 ft tall.
		-		
				Woody vines - All woody vines greater than 3.28 ft in
				height.
		= Total Cov	<u> </u>	Hydrophytic
		_ = 10tal C0V	EI	
				Vegetation
				Present? Yes NoX

SOIL Sampling Point: 029-1U

(inches) Color (most)	Depth	iption: (Describe to the Matrix			Features				
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Jocation: PL=Pore Lining, M=Matrix.	(inches)								Remarks
ydric Soil Indicators: Histosol (A1)	0-18	10YR 3/3	85	10YR 6/8	15	C	M,PL	Clay	
ydric Soil Indicators: Histosol (A1)					· 				
ydric Soil Indicators: Histosol (A1)					· ——				
ydric Soil Indicators: Histosol (A1)					· 				
ydric Soil Indicators: Histosol (A1)									
ydric Soil Indicators: Histosol (A1)									
ydric Soil Indicators: Histosol (A1)									-
ydric Soil Indicators: Histosol (A1)									
ydric Soil Indicators: Histosol (A1)									
ydric Soil Indicators: Histosol (A1)									
ydric Soil Indicators: Histosol (A1)									
Histosol (A1)	ype: C=Con	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ed Sand Gra	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
Histosol (A1)	vdric Soil Ir	dicators:						Indicators	s for Problematic Hydric Soils3:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F2) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Friedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	-			Polyvalue Below	Surface (S8	3) (LRR R	MLRA 149E		_
Black Histic (A3)		•	-		•	,	•	· —	. ,
Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Depth (inches): Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface			-						
Stratified Layers (A5) X Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Type: Depth (inches): Hydric Soil Present? Yes X No			-			, ,			
Thick Dark Surface (A12)			•	X Depleted Matrix	(F3)				
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No			\11)	Redox Dark Sur	face (F6)			Thin I	Dark Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes X No	Thick Da	rk Surface (A12)	•	Depleted Dark S	Surface (F7)			Iron-N	Manganese Masses (F12) (LRR K, L, R)
Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Sandy M	ucky Mineral (S1)	-	Redox Depressi	ons (F8)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	Sandy G	eyed Matrix (S4)	-					Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	Sandy R	edox (S5)						Red F	Parent Material (F21)
estrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Type: Depth (inches): Type: Type	Stripped	Matrix (S6)						Very S	Shallow Dark Surface (TF12)
Estrictive Layer (if observed): Type:	Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
Estrictive Layer (if observed): Type:	iladiaatara af		andatland			a aliatuuda a		a ti a	
Type:	indicators or	Tydrophytic vegetation	and welland	nydrology must be pr	esent, unies	s disturbed	or problem	alic.	
Depth (inches): Hydric Soil Present? Yes X No	Restrictive La	ayer (if observed):							
				<u></u>					
emarks:	Depth (inc	ches):						Hydric Soil P	resent? Yes <u>X</u> No
	emarks:						I		
	Ciriaino.								

Project/Site:	19020 -	South Ripley		(City/Cour	nty:	Chautauqua (County	Sampling Date:	07/07/2020
Applicant/Owner:			ConnectC		,	, <u> </u>		ate: New York		029-1W
Investigator(s):		doni & Sam Pa			Section.	Township, Ra			wn of Ripley	
Landform (hillslope, terrace						ave, convex, r	_	Concave	· · · · · · · · · · · · · · · · · · ·	e (%): 0-3
Subregion (LRR or MLRA):		R R MLRA 13		Lat:		19933418	Long:	-79.760859		`
Soil Map Unit Name:				nannery silt				NWI classificati		PEM
Are climatic / hydrologic co	nditions on the						(If no.	explain in Remarl		
Are Vegetation, \$								cumstances" pres	•	X No
	Soil,							ain any answers ir		
SUMMARY OF FINDI								•	•	
						Is the Sami	-	,p =		
Hydrophytic Vegetation F Hydric Soil Present?	resent?	Yes Yes		o		within a We		Voc. V	No	
,	nnt?			o			nal Wetland Site	Yes X	No Wetland 29	_
Wetland Hydrology Prese	ent?	Yes	<u> </u>	o		ii yes, optio	nai welland Sil	e ID	Welland 29	
Remarks: (Explain altern Grazed field		es here or in a	a separate	report.)						
HYDROLOGY										
Wetland Hydrology Ind	icators:									
Primary Indicators (minin		uired: check	all that apr	olv)				Secondary Indic	ators (minimum of	two required)
Surface Water (A1)				ter-Stained I	Leaves (B9)	_		il Cracks (B6)	
High Water Table (A	(2)			uatic Fauna	,	,		X Drainage P		
Saturation (A3)				rl Deposits (Lines (B16)	
Water Marks (B1)			— Hyd	drogen Sulfic	de Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)		X Oxi	dized Rhizo	spheres	on Living Roo	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)			Pre	sence of Re	educed Ir	on (C4)		Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or Crust (I	B4)		Red	cent Iron Re	duction i	n Tilled Soils	(C6)	Stunted or	Stressed Plants (D	1)
Iron Deposits (B5)			Thi	n Muck Surf	ace (C7)	1		X Geomorphi	c Position (D2)	
Inundation Visible o	n Aerial Image	ry (B7)	Oth	er (Explain i	in Rema	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	Concave Surf	ace (B8)						X Microtopog	raphic Relief (D4)	
								X FAC-Neutra	al Test (D5)	
Field Observations:										
Surface Water Present?	Yes	No	X D	epth (inches	s):					
Water Table Present?	Yes	No No		epth (inches						
Saturation Present?	Yes	No	X D	epth (inches	s):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe))									· <u></u>
Describe Recorded Data	(stream gaug	e, monitoring	well, aeria	l photos, pre	evious ins	spections), if a	available:			
Remarks:										

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
ee Stratum (Plot size: 30)	%Cover	Species?	Status	That Aid OBE, I AOW, OF I AO.
ee Stratum (Flot size)	/60040.	Эрсыса.	Status	Total Number of Dominant
	- ———			
				Species Across All Strata: 2 (B)
	- ——			
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				- Landara mandrahanés
				Prevalence Index worksheet:
	0	_ = Total Cove	er	Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
				FACW species 100 x 2 = 200
	· -			FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 200 (B)
				Prevalence Index = B/A = 2.0
				Hydrophytic Vegetation Indicators:
_	0	_ = Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Hierochloe / Sweetgrass	50	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Phalaris arundinacea / Reed canarygrass, Reed canary gras	s 40	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Polygonum punctatum / Dotted smartweed	10	No	FACW	
76 7	· ——			Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
			- ——	
				Definitions of Vegetation Strata
	- ——			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
•				breast height (DBH), regardless of height.
·				Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size:)		-		Herb - All herbaceous (non-woody) plants, regardless of
			_	size, and woody plants less than 3.28 ft tall.
		-		Woody vines - All woody vines greater than 3.28 ft in
				woody vines - All woody vines greater than 3.28 ft in height.
	-			Tieigrit.
	0	= Total Cove		Hydrophytic
		_ = 10tai Cov	er	
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 029-1W

Profile Descri Depth	Matrix			c Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 3/1	80	10YR 6/8	20	C	PL,M	Clay	
								
								-
								
								
								-
ype: C=Cond	centration, D=Depletion	n, RM=Redu	iced Matrix, MS=Mask	ked Sand Gra	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
ydric Soil In	dicators:						Indicators	s for Problematic Hydric Soils³:
Histosol (Polyvalue Below	v Surface (S8) (LRR R.	MLRA 149E		Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa	•	,		· —	t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M					Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N					Surface (S7) (LRR K, L)
	Layers (A5)		X Depleted Matrix	(F3)				ralue Below Surface (S8) (LRR K, L)
 Depleted	Below Dark Surface (A	(11)	Redox Dark Sur	face (F6)			Thin I	Dark Surface (S9) (LRR K, L)
Thick Dar	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	Manganese Masses (F12) (LRR K, L, R)
Sandy Mı	ucky Mineral (S1)		Redox Depressi	ions (F8)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red F	Parent Material (F21)
	Matrix (S6)						Very	Shallow Dark Surface (TF12)
Dark Surf	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
				resent unles	s disturbed	or problem:	atic	
Indicators of h	hydrophytic vegetation:	and wetland	l hydrology must he ni					
	hydrophytic vegetation	and wetland	hydrology must be pi					
Restrictive La	nydrophytic vegetation a	and wetland	l hydrology must be pi	Toolin, armoo				
estrictive La	ayer (if observed):							
estrictive La	ayer (if observed):			, descrit, unico			Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes <u>X</u> No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La	ayer (if observed):							resent? Yes X No
testrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No
estrictive La Type: Depth (inc	ayer (if observed):							resent? Yes X No

Project/Site:	19020	- South Ripley		City/Cour	ntv:	Chautauqua (County	Sampling Date:	07/08/2020
Applicant/Owner:		·	ectGen LLC				ate: New York		030-1U
Investigator(s):	Matt Sp:	adoni & Sam Parker		Section, Township, Ra			Tov	wn of Ripley	
Landform (hillslope, ter	race, etc):	Mound	Local re	elief (conca	ave, convex, no	one):	Convex	Slope	e (%): 0-3
Subregion (LRR or MLF		RR R MLRA 139	Lat:	42.1	19807479	Long:	-79.758456	71 Datun	n: NAD 83
Soil Map Unit Name:		Volus	ia channery si	ilt loam		<u> </u>	NWI classification	on:	
Are climatic / hydrologic	c conditions on th	ne site typical for this	time of year?	Yes >	X No	(If no,	_ explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed	d? A	re "Normal Cire	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic	? (I	f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Att	ach site map sh	owing sam	npling po	oint locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetati		Yes	No X		Is the Samp		-	•	
Hydric Soil Present?		Yes	No X	_	within a We		Yes	No X	
Wetland Hydrology F		Yes	No X	_		al Wetland Site			=
				_	,,				
Remarks: (Explain al	Iternative procedu	ures here or in a sepa	rate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
, ,,		equired; check all that	annly)				Secondary Indica	ators (minimum of t	two required)
Surface Water (squired, cricek all trial	Water-Staine	d Leaves (I	R9)	-		l Cracks (B6)	wo required)
High Water Tabl	. ,	_	Aquatic Faun	`	50)			atterns (B10)	
Saturation (A3)		_	Marl Deposits	` '			Moss Trim L		
Water Marks (B		_	Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depos	•				on Living Root	ts (C3)	Crayfish Bu		
Drift Deposits (E	` ,	_	Presence of F	-	-	.0 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•				n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su		•	,		Position (D2)	• ,
	ole on Aerial Imag	gery (B7)	Other (Explai	, ,			Shallow Aqu		
	ated Concave Su		, ,		,			aphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations:		N V	D 11 (" 1	,					
Surface Water Prese		s NoX							
Water Table Present		s NoX		· —		\A/-4		V	NI- V
Saturation Present?	Yes	s NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fri	nge)								
Describe Recorded D	Data (stream gau	ige, monitoring well, a	erial photos, p	revious ins	spections), if a	vailable:			
	3	3-, 3 - , -			.,				
Remarks:	g pasture								
Grazing) pasture								

Species Across All Strata: 2 (B) Species Across All Strata: 2 (B)	EGETATION - Use scientific names of plants.				Sampling Point: 030-1U
Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 0 (A)					Dominance Test worksheet:
Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 0 (A)					
Total Number of Dominant Species Capture		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B That Are OBL, FACW, or FACW,					Inat are OBL, FACW, OF FAC: U (A)
Species Across All Strata:		%Cover	Species?	Status	
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B	1				Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: Description	2			= ======	Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:					
That Are OBL, FACW, or FAC:					Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACV species 0 x2 = 0 FACV species 0 x3 = 0 FACV species 0 x5 = 0 FACV s					
Prevalence Index worksheet: Total Cover					Trial Are ODE, I AOW, OF I AO.
Total % Cover of:					Provalence Index worksheet
OBL species	·				
FACW species 0 x 2 = 0 TAC species 0 x 3 = 0 TAC species 0 x 4 = 360 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0 UPL species 0 x 5 = 0 TAC species 0 x 5 = 0		0	_ = Total Cov	er	
FAC species 0 x3 = 0 FACU species 90 x4 = 360 SACU Seption SACU Seption SACU Seption SACU Seption SACU Seption SACU	Sapling/Shrub Stratum (Plot size:)				· — — — — — — — — — — — — — — — — — — —
FAC species 0 x3 = 0 FACU species 90 x4 = 360 UPL species 0 x5 = 0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index 53.0' 4 - Morphological Adaptations (Provide supporting Plantago major / Common plantain 10 No FACU Plantago major / Common plantain 10 No FACU Hieracium cesspitosum / Meadow hawkweed 10 No Taraxacum officinale / Red seeded dandelion, Common dan 10 No FACU Undicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation or more in diameter at breast height (DBH), regardless of height. Tree - Woody Vine Stratum (Plot size: 30) O = Total Cover O = Total Cover Hydrophytic Vegetation Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft lin height. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes No X	<u> </u>				· — — — — — — — — — — — — — — — — — — —
FACU species 90 x 4 = 360 UPL species 0 x 5 = 0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 10					· — — — — — — — — — — — — — — — — — — —
UPL species 0 x 5 = 0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Brevelence Inde					
Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 360 (B Prevalence Index = B/A = 4.0 Column Totals: 90 (A) 4.0 Column Total Column Indicators of Prevalence Index = Slow (Prevalence Index = Slow (Prev					
Prevalence Index = B/A = 4.0 Prevalence Index = B/A = 4.0					
Berb Stratum (Plot size:5)					``
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation	· <u> </u>	<u> </u>			Prevalence Index = B/A = 4.0
erb Stratum (Plot size:			<u> </u>		to the state of th
Stratum Plot size: 5 50 Yes FACU 7 7 7 7 7 7 7 7 7			= Total Cov	/er	
Trifolium repens / White clover 50	Jorh Stratum (Plot size: 5)	-	- '	51	-
Phleum pratense / Common timothy, Cultivated timothy Plantago major / Common plantain Pleracium caespitosum / Meadow hawkweed No No FACU Taraxacum officinale / Red seeded dandelion, Common dan No FACU Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum Plot size: O = Total Cover Problematic Hydrophytic Vegetation (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Provide supporting 4 - Morphological Adaptations (Provide supporting 1 - Problematic Hydrophytic Vegetation (Provide supporting 1 - No Included I	 _ `	EΩ	Vac	EACH	2 - Dominance Test is >50%
Phleum pratense Common timothy, Cultivated timothy 20 Yes FACU Plantago major Common plantain 10 No FACU No Problematic Hydrophytic Vegetation (Provide supporting Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Ve	· · · · · · · · · · · · · · · · · · ·				3 - Prevalence Index ≤3.0¹
Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation (Explain)					
Tree - Woody Vine Stratum (Plot size:	. Plantago major / Common plantain	10	No	FACU	<u> </u>
Taraxacum officinale / Red seeded dandelion, Common dan 10 No FACU	Hieracium caespitosum / Meadow hawkweed	10	No		— Problematic hydrophytic vegetation (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata		10	No	FACU	
Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata					
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Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes NoX					· .
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes NoX	1				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes NoX)				
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O					Troe Moody plants 3 in (7.6 cm) or more in diameter at
2	1			-	
Voody Vine Stratum (Plot size: 30) = Total Cover greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X					
Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	Z		T-1-1 Cov		
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No _X		100	_ = 10tal Cov	er	greater than or equal to 3.28 π (1 m) ταιι.
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No _X	<u> </u>				
height. O = Total Cover Hydrophytic Vegetation Present? Yes No X	·				
height. O = Total Cover Hydrophytic Vegetation Present? Yes No X	<u></u> _				Woody vines - All woody vines greater than 3.28 ft in
					, ,
0 = Total Cover	·	-			
Vegetation Present? Yes NoX	•		- Total Cov		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Present? Yes No X			_ = 10tal Cov	er	
					Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate report.)					
	Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 030-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features (inches) Color (moist) % Loc² Color (moist) Type¹ Texture Remarks 10YR 3/3 100 8-0 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Rock refusal at 8

Project/Site:	19020 - So	outh Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	07/08/2020
Applicant/Owner:		(ConnectGen LLC			Sta	ate: New York	Sampling Point:	030-1W
Investigator(s):	Matt Spador	ni & Sam Pa	rker	Section,	Township, Rai	nge:	To	wn of Ripley	
Landform (hillslope, terrace	, etc): Bowl-	-shaped dep	ression Local r	elief (conca	ave, convex, r	none):	Concave	Slope	e (%): 0-3
Subregion (LRR or MLRA):	LRR	R MLRA 139) Lat:	42.1	19810579	Long:	-79.758665	558 Datur	n: <u>NAD 83</u>
Soil Map Unit Name:		`	Volusia channery s	ilt loam			NWI classificati	on:	PEM
Are climatic / hydrologic cor		• •	· ·			(If no,	explain in Remar	ks.)	
Are Vegetation, S							cumstances" pres		NoX
	· · · · · · · · · · · · · · · · · · ·		naturally p			· ·	ain any answers ir	•	
SUMMARY OF FINDI	NGS - Attach	h site ma	showing san	npling po	oint location	ons, transec	ts, important	features, etc.	
Hydrophytic Vegetation F	Present?	Yes	X No		Is the Samp	oled Area			
Hydric Soil Present?		Yes	X No	_	within a We	etland?	Yes X	No	_
Wetland Hydrology Prese	ent?	Yes	X No	_	If yes, option	nal Wetland Site	e ID:	Wetland 30	
Remarks: (Explain altern Ag pond, dr	ative procedures ained and vegeta		separate report.)						
HYDROLOGY									
Wetland Hydrology Indi	icators:								
Primary Indicators (minin		red: check a	ll that apply)				Secondary Indic	ators (minimum of	two required)
X Surface Water (A1)	•	•	X Water-Staine	d Leaves (B9)			il Cracks (B6)	
X High Water Table (A	.2)		Aquatic Faur	na (B13)	,		X Drainage P	atterns (B10)	
X Saturation (A3)			Marl Deposits	s (B15)			Moss Trim	Lines (B16)	
Water Marks (B1)			X Hydrogen Su	Ilfide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhi	zospheres	on Living Roc	ots (C3)	Crayfish Bu		
Drift Deposits (B3)			Presence of	Reduced In	on (C4)		X Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or Crust (F	B4)				n Tilled Soils	(C6)		Stressed Plants (D	1)
Iron Deposits (B5)			Thin Muck Si					c Position (D2)	
Inundation Visible or			Other (Explain	in in Remai	rks)		Shallow Aq	` '	
Sparsely Vegetated	Concave Surface	e (B8)						raphic Relief (D4)	
							X FAC-Neutra	ai iesi (D5)	
Field Observations:									
Surface Water Present?	Yes	X No	Depth (inch	es):	0-2				
Water Table Present?	Yes	X No _	Depth (inch	es):	0				
Saturation Present?	Yes	X No	Depth (inch	es):	0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe))								
Describe Recorded Data	(stream gauge i	monitoring w	vell aerial nhotos r	nrevious ins	snections) if a	available:			
Describe recorded bata	(Stream gauge, i	morntoning w	reii, aeriai priotos, p	JICVIOUS IIIC	3pcction3), ii e	ivaliable.			
Remarks:									
<u> </u>									

GETATION - Use scientific names of plants.				Sampling Point: 030-1W
				Dominance Test worksheet:
				Number of Dominant Species
Objectives (Districts and	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:1 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	Total Number of Deminant
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				That Aid OBE, TAOW, OFFAO.
·				Prevalence Index worksheet:
1	0	= Total Cov	 er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		-		OBL species 90 x 1 = 90
				FACW species 0 x 2 = 0
		_		FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 90 (A) 90 (B)
				Prevalence Index = B/A = 1.0
				Hydrophytic Vogotation Indicators:
	0	= Total Cov	er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5				X 2 - Dominance Test is >50%
. Ludwigia palustris / Marsh purslane	80	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
. Juncus effusus / Common bog rush, Soft or lamp rush	10	No	OBL	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
-				robernatio riyarophytic vegetation (Explain)
· <u> </u>				¹ Indicators of hydric soil and wetland hydrology must
•				be present, unless disturbed or problematic.
· <u> </u>				as present, unless distances of presionalist
· <u> </u>				Definitions of Vegetation Strata
0.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Joseph Mina Chrahima (Plataina) 20	90	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
·				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 030-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc2 (inches) Color (moist) Type¹ Texture Remarks 10YR 3/2 100 0-18 Mucky clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes X No Remarks:

Project/Site:	19020 - Sout	th Ripley	City/Cou	unty:	Chautauqua C	County	Sampling Date:	07/08/2020
Applicant/Owner:				,	•	ite: New York		031-1U
Investigator(s):	JAM .			Township, Rai			vn of Ripley	
Landform (hillslope, terrace			Local relief (cond			Convex		(%): 0-5
Subregion (LRR or MLRA)				2.1995615	Long:	-79.757416		`
Soil Map Unit Name:			hannery silt loam			NWI classification		1. 14/15/00
Are climatic / hydrologic co					(If no	explain in Remark		
	Soil, or H				` ′	cumstances" prese	,	(No
	Soil, or H					in any answers in		<u> </u>
					· · · · · ·	•	•	
SUMMARY OF FIND		-		omi iocalic	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation	Present?		o <u>X</u>	Is the Samp	oled Area			
Hydric Soil Present?		Yes N	o <u>X</u>	within a We	etland?	Yes	No X	_
Wetland Hydrology Pres	sent?	Yes N	o <u>X</u>	If yes, option	nal Wetland Site	: ID:		
Remarks: (Explain alterr	native procedures he	are or in a senarate	report)	ı				
rtemarks. (Explain alten	iative procedures no	or or in a separate	report.)					
HYDROLOGY								
Wetland Hydrology Inc	licators:							
Primary Indicators (mini		d: check all that an	olv)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1)		-	ter-Stained Leaves	(B9)			Cracks (B6)	
High Water Table (A			uatic Fauna (B13)	()			atterns (B10)	
Saturation (A3)	_,		rl Deposits (B15)			Moss Trim L		
Water Marks (B1)			drogen Sulfide Odo	r (C1)			Water Table (C2)	
Sediment Deposits	(B2)		idized Rhizospheres		ots (C3)	Crayfish Bu		
Drift Deposits (B3)	(52)		sence of Reduced	-	no (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(R4)		cent Iron Reduction	. ,	(C6)		Stressed Plants (D1	
Iron Deposits (B5)	(D4)		n Muck Surface (C7		(00)		Position (D2)	,
1 -	on Aerial Imagery (B		ner (Explain in Rema			Shallow Aqu		
			iei (Expiaiii iii Reili	aiks)				
Sparsely vegetated	d Concave Surface (D0)				FAC-Neutra	aphic Relief (D4)	
						FAC-Neulla	i iesi (D5)	
Field Observations:								
Surface Water Present?	Yes	No X D	epth (inches):					
Water Table Present?	Yes		epth (inches):					
Saturation Present?	Yes		epth (inches):		Wetland Hydi	ology Present?	Yes	No X
(includes capillary fringe					wonana nya.	ology i rocolic.		<u> </u>
(moradeo dapinar y mingo	·'/ 							
Describe Recorded Data	a (stream gauge, mo	onitoring well, aeria	I photos, previous ir	nspections), if a	available:			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: 031-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	1110 000, 17101, 011710.
1. Populus tremuloides / Quaking aspen	10	Yes	FACU	Total Number of Dominant
^		_		Species Across All Strata: 4 (B)
				Species Across Air Strata.
3 4.				Percent of Dominant Species
				•
6				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.		_		Prevalence Index worksheet:
7	10	= Total Cov		Total % Cover of: Multiply by:
Combined Charles (Diet size) 15	10	_ = Total Cov	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)	4.5	V20	54011	FACW species 0 x 2 = 0
Populus tremuloides / Quaking aspen Selin (Millan)	15	Yes	FACU	FAC species $0 \times 3 = 0$
2. Salix / Willow	5	Yes		FACU species 115 x 4 = 460
3				UPL species $0 \times 5 = 0$
4				Column Totals: 115 (A) 460 (B)
5				` ` ` `
6				Prevalence Index = B/A = 4.0
7				Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Holcus lanatus / Common velvetgrass, Common velvet grass	50	Yes	FACU	
2. Plantago lanceolata / Ribwort, English plantain	20	No		3 - Prevalence Index ≤3.0¹
3. Asclepias / Milkweed	5	Yes	FACU	4 - Morphological Adaptations (Provide supporting
4. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	10	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5. Trifolium pratense / Red clover	10	No	FACU	
6				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
				D. Caldiana of Manufation Charles
^				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
	95	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	/er	Hydrophytic
				Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 031-1U

Depth	ription: (Describe to the Matrix	ie ueptn nee		e indicator Features	or confirm the	e apsend	e oi indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-20	2.5 Y 5/4	100	,				· ·	
				-				
-								
Type: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gr	ains.		²Location: F	PL=Pore Lining, M=Matrix.
	adioatoro.						Indicators for D	roblematic Hydric Caile3:
Hydric Soil Ir			Dobarduo Bolov	Curfoss (C	2) / DD D MI	DA 440E		roblematic Hydric Soils ³ :
Histosol			Polyvalue Below					(A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			1 9B)		e Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M		(LRR K, L)			Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N					e (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix					selow Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sur					surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					nese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ons (F8)				loodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							lic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Material (F21)
	Matrix (S6)							w Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	.RA 149B)					Other (Expl	ain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	s disturbed or	nrohlema	atic	
		and Wolland	Trydrology made 20 pt			T		
	ayer (if observed):							
Type:							Under Call Bases	10 V N- V
Depth (Inc	ches):						Hydric Soil Presen	t? Yes No _X
Remarks:								

Applicant/Owner: ConnectGen LLC State: New York Sampling Point: 031-1U nvestigator(s): JK,SPF Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc): Flat Local relief (concave, convex, none): None Slope (%): 0-5 Subregion (LRR or MLRA): LRR MLRA 139 Lat: 42.17549566 Long: -79.69489578 Datum: NAD 83 Soil Map Unit Name: Frie silt loam 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 Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.)	Project/Site:	19020 - South Ripley	City/County:	Chautaugua	a County	Sampling Date:	08/18/2020
Landform (fillslope, terrace, etc):	Applicant/Owner:	Conne		·			
Subregion (LRR or MLRA): LRR RMLRA 139	Investigator(s):	JK,SPF	Section, Tow	nship, Range:	To	wn of Ripley	
Subregion (LRR or MLRA): LRR RMLRA 139	Landform (hillslope, terrace, etc):	Flat	Local relief (concave,	convex, none):	None	Slope	(%): 0-5
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X. No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? (freeded, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wettland? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Hydropen Surface Water (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sulrated or Startation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Sulrace Water Present? Yes No X Depth (inches): Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Subregion (LRR or MLRA):		Lat: 42.1754	9566 Long:	-79.694895	78 Datum	n: NAD 83
Are Vegetation Soil or Hydrology significantly disturbed? Are Yournal Circumstances' present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attack site map showing sampling point locations, transacts, important features, etc. Hydrophylic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Sufface Water (A1) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Odized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Agail Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sunted or Stressed Plants (D1) Innudation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Depth (inches): Water Table Present? Yes No X Depth (inches):	Soil Map Unit Name:		Erie silt loam		NWI classification	on:	
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X is the Samplad Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X if yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Moss Tim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) 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): Water Table Present? Yes No X Depth (inches):	Are climatic / hydrologic conditions	s on the site typical for this ti	me of year? Yes X	No (If n	 o, explain in Remark	(s.)	
Sufface Water (A1)	Are Vegetation , Soil	, or Hydrology	significantly disturbed?	Are "Normal C	ircumstances" prese	ent? Yes >	(No
Hydrophytic Vegetation Present? Yes No X within a Wetland? Yes No X within a Wetland? Yes No X within a Wetland? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators:	Are Vegetation , Soil	, or Hydrology	naturally problematic?	(If needed, exp	olain any answers in	Remarks.)	
Hydric Soil Present? Yes No X Within a Wetland? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X Within a Wetland? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology P	SUMMARY OF FINDINGS	- Attach site map sho	 owing sampling poin	t locations, transe	ects, important	features, etc.	
Hydric Soil Present? Yes No X Within a Wetland? Yes No X If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes No X Within a Wetland? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology P		-			•		
Wetland Hydrology Present? No X	, , ,			•	Yes	No X	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Saturation (A3) Mant Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Aquatic Fauna (B13) Trainage Patterns (B10) Moss Trim Lines (B16) Drainage Patterns (B10) Moss Trim Lines (B16) Dray-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Vater Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							_
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Deposits (B15) Water Additional Deposits (B15) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X				,,			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record	Remarks: (Explain alternative p	rocedures here or in a separ	rate report.)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record							
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record							
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	HYDROLOGY						
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)		••					
Surface Water (A1)			annly)		Secondary Indica	ators (minimum of t	wo required)
High Water Table (A2)	-	•				•	wo required)
Saturation (A3)			,				
Water Marks (B1)	<u> </u>						
Sediment Deposits (B2)	<u> </u>)			
Drift Deposits (B3)	_ ` '						
Algal Mat or Crust (B4)			•				agery (C9)
Iron Deposits (B5)				•			
Inundation Visible on Aerial Imagery (B7)	1 - -	 -		(,		•	,
Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) FAC-Neutral Test (D5) Factor Fac	_ · · · · ·		` ,				
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			,				
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					FAC-Neutra	l Test (D5)	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		V N V	D # (")				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			· · · · · · · · · · · · · · · · · · ·				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			· · · · —				N V
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Yes NoX	Depth (inches):	Wetland Hy	drology Present?	Yes	No <u>X</u>
	(includes capillary fringe)						
	Describe Recorded Data (stream	m gauge, monitoring well, as	erial photos, previous insper	ctions), if available:			
Remarks:		gg.,		,			
Remarks:							
	Remarks:						

VEGETATION - Use scientific names of plants.				Sampling Point: 031-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Tsuga canadensis / Eastern hemlock	80	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	10	No	FACW	Species Across All Strata: 4 (B)
3				
4				Percent of Dominant Species
5	-	_		That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Prevalence Index worksheet:
7	90	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	90	_ = 10tal Cov	EI	OBL species 0 x 1 = 0
1. Fraxinus americana / White ash	10	Yes	FACU	FACW species 10 x 2 = 20
Hamamelis virginiana / American witch-hazel	10	Yes	FACU	FAC species 0 x 3 = 0
Ostrya virginiana / Eastern hop-hornbeam	5	Yes	FACU	FACU species 105 x 4 = 420
4.	- 			UPL species 0 x 5 = 0
5.				Column Totals:115 (A)440 (B)
6.				Prevalence Index = B/A = 3.83
7.				
	25	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5)				1 - Rapid Test for Hydrophytic Vegetation
1				2 - Dominance Test is >50%
2	(3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4	-	-		Troblematic rrydrophytic vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6	_,	_		be present, unless disturbed or problematic.
7	- ·			,,
8	-	_		Definitions of Vegetation Strata
9.				
10.	_		- · -	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	_	-	<u> </u>	breast height (DBH), regardless of height.
12		= Total Cov	er	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)		10(a) 000	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes NoX
5				
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 031-1U

(inches) Color (molst) % Color (molst) % Type Loc* Texture Remarks 1019 5/3 100 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Reduced Matrix, MS=Reduce	Depth	Matrix			Features					_		
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. dric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) Thick Dark Surface (A12) Depleted Dark Surface (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Thick Dark Surface (S7) Thick Dark Surface (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Thick Dark Surface (S7) Th	nches)		%	Color (moist)	%	Type ¹	Loc²			Remar	ks	
Histosol (A1)	0-18	10yr 5/3	100					Silt loam				
Histosol (A1)												
Indicators for Problematic Hydric Soils*: Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Indicators for Problematic Hydric Soils*: Histosol (A1)			. ——		· ——							
Indicators for Problematic Hydric Soils*: Histosol (A1)		-										
dric Soil Indicators: Histosol (A1)							 .					
Indicators for Problematic Hydric Soils*: Histosol (A1)												
Indicators for Problematic Hydric Soils*: Histosol (A1)		-			· ——		 .					
dric Soil Indicators: Histosol (A1)												
Histosol (A1)	pe: C=Con	centration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ed Sand Gra	ains.		²Locatio	n: PL=Po	re Lining, N	/I=Matrix.	
Histosol (A1)	dric Soil In	dicators:						Indicators fo	or Proble	matic Hyd	ric Soils³:	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matr				Polyvalue Belov	Surface (S8) (LRR R,I	MLRA 149 E			-		9B)
Black Histic (A3)		•	•							•		-
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLR 144A, 144, 144, 144, 144, 144, 144, 144	_						1.102,				•	
Stratified Layers (A5)	-					, _/			-			_,,
Depleted Below Dark Surface (A11)			,									1.)
Thick Dark Surface (A12)	-	• • •	Λ11)									-,
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLR. Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	_		AII)									/ I D
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	-											
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	_			Redox Depressi	ons (F8)							
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No		• • •									144A, 145	, 149B
Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	_											
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No											TF12)	
Depth (inches): Hydric Soil Present? Yes No	_ Dark Surf	face (S7) (LRR R, ML	₋RA 149B)					Other (E	Explain in	Remarks)		
Estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No												
Type:	ndicators of h	nydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
Depth (inches): Hydric Soil Present? Yes No		yer (if observed):										
emarks:	Depth (inc	hes):						Hydric Soil Pres	sent?	Yes	No	Χ
marks:												
	marks:											

Project/Site:	19020 - South Ripley	City/0	County:	Chautauqua County	Sampling Date: 07/08/2020
Applicant/Owner:	1 ,	ConnectGen LLC	,	State: New York	
Investigator(s):	JAM JMG		on, Township, Rang		wn of Ripley
Landform (hillslope, terrac			oncave, convex, no		' '
): LRR R MLRA 1		42.19965554	Long: -79.757208	
		Volusia Channery Silt Loan		NWI classificati	
	onditions on the site typical fo			(If no, explain in Remar	
•	, Soil, or Hydrology	· ·		e "Normal Circumstances" pres	•
·		naturally problem		needed, explain any answers ir	
				ns, transects, important	·
					reatures, etc.
Hydrophytic Vegetation		X No	Is the Sample		
Hydric Soil Present?	Yes	X No	within a Wet		
Wetland Hydrology Pre	sent? Yes	X No	If yes, optiona	al Wetland Site ID:	031
Remarks: (Explain alter	native procedures here or in	a senarate renort)	· ·		
remarks. (Explain alter	native procedures here or in	a separate report.)			
HYDROLOGY					
Wetland Hydrology In	dicators:				
Primary Indicators (min	imum of one required; check	all that apply)		Secondary India	ators (minimum of two required)
Surface Water (A1)	X Water-Stained Leav	es (B9)	Surface So	il Cracks (B6)
X High Water Table ((A2)	Aquatic Fauna (B13)	 Drainage P	atterns (B10)
X Saturation (A3)	•	Marl Deposits (B15)			Lines (B16)
Water Marks (B1)		Hydrogen Sulfide O	dor (C1)	Dry-Season	n Water Table (C2)
Sediment Deposits	s (B2)	X Oxidized Rhizosphe			
Drift Deposits (B3)	` '	Presence of Reduce	~	· · · — ·	Visible on Aerial Imagery (C9)
Algal Mat or Crust		Recent Iron Reducti	. ,		Stressed Plants (D1)
Iron Deposits (B5)	• •	Thin Muck Surface (•	X Geomorphi	, ,
I — ' ' '	on Aerial Imagery (B7)	Other (Explain in Re		Shallow Aq	
	d Concave Surface (B8)		,	 -	raphic Relief (D4)
				X FAC-Neutra	
				_	
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):	10	Wetland Hydrology Present?	Yes X No
(includes capillary fringe	e)				
December December Det			- ! !f \ !f	-9-61-	
Describe Recorded Dat	a (stream gauge, monitoring	weii, aeriai photos, previou	s inspections), if av	allable:	
Remarks:					

Tree Stratum (Plot size: 30)	Total Number of Dominant Species Across All Strata: 8 (B)
Tree Stratum (Plot size: 30	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0
1. Salix / Willow	Total Number of Dominant Species Across All Strata: 8 (B)
3.	Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 105 x 2 = 210 FAC species 45 x 3 = 135 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
3.	Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/B)
5. 6. 7. 40 = Total Cover Sapling/Shrub Stratum (Plot size: 15) 1. Viburnum dentatum / Southern arrow-wood 10 Yes 2. Salix / Willow 10 Yes 3. Fraxinus pennsylvanica / Green ash 5 Yes 4. 5. 6.	That Are OBL, FACW, or FAC:
6.	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 105 x 2 = 210 FAC species 45 x 3 = 135 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
Sapling/Shrub Stratum (Plot size:	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 105 x 2 = 210 FAC species 45 x 3 = 135 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
Sapling/Shrub Stratum (Plot size: 15) 1. Viburnum dentatum / Southern arrow-wood 10 Yes I 2. Salix / Willow 10 Yes F 3. Fraxinus pennsylvanica / Green ash 5 Yes F 4. 5 6 7 C	OBL species 0
1. Viburnum dentatum / Southern arrow-wood 10 Yes 2. Salix / Willow 10 Yes 3. Fraxinus pennsylvanica / Green ash 5 Yes F. 4.	FAC FACW species 105 x 2 = 210 FAC species 45 x 3 = 135 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
2. Salix / Willow 10 Yes 3. Fraxinus pennsylvanica / Green ash 5 Yes F. 4.	FAC species
3. Fraxinus pennsylvanica / Green ash 4. 5. 6. 7. 25 = Total Cover Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 60 Yes F. 2. Impatiens capensis / Spotted jewelweed 40 Yes F. 3. Equisetum arvense / Common horsetail 30 Yes I. 4. 5. 6. 7. 8. 9.	UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
4.	UPL species 0 x 5 = 0 Column Totals: 150 (A) 345 (B)
5. 6. 7.	\ \ \ \ \ \ \ / \ \ \ / \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \ \ \ / \ \
6. 7. 25	Prevalence Index = B/A = 2.3
7	
25	Hudronbutio Vanatation Indicators
1. Onoclea sensibilis / Sensitive fern 60 Yes F. 2. Impatiens capensis / Spotted jewelweed 40 Yes F. 3. Equisetum arvense / Common horsetail 30 Yes I. 4. 5. 6. . . 7. 8. . . . 9. 10. . <t< td=""><td>Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation</td></t<>	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
2. Impatiens capensis / Spotted jewelweed 40 Yes F. 3. Equisetum arvense / Common horsetail 30 Yes I 4. 5. 6. 7. 8. 9. 9. 10.	X 2 - Dominance Test is >50%
3. Equisetum arvense / Common horsetail 30 Yes 1 4.	ACW X 3 - Prevalence Index ≤3.0¹
4. 5. 6. 7. 8. 9. 10.	-ACW 4 - Morphological Adaptations (Provide supporting
5	Problematic Hydrophytic Vegetation¹ (Explain)
6	
7	¹Indicators of hydric soil and wetland hydrology must
8	be present, unless disturbed or problematic.
9. 10.	
10.	_
11	breast height (DBH), regardless of height.
12.	Sapling/shrub - Woody plants less than 3 in. DBH and
130 = Total Cover	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)	Herb - All herbaceous (non-woody) plants, regardless of
1. Vitis riparia / River-bank grape 5 Yes I	FAC size, and woody plants less than 3.28 ft tall.
2	Woody vines - All woody vines greater than 3.28 ft in
3	height.
4	
5 = Total Cover	Hydrophytic
	Vegetation Present? Yes X No
	Present? Yes X No

SOIL Sampling Point: 031-1W

Color (molst) % Color (molst) % Type' Loc* Texture Remarks	Depth	iption: (Describe to t Matrix	e ueptii ile		re indicator k Features	or comm	uie ausen	oe oi muicator	3. j		
4-12	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	. <u></u>	Remarks	<u> </u>
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. #Location: PL=Pore Lining, M=Matrix. #Indicators for Problematic Hydric Soils*: Histosol (A1)	0-4	10 YR 3/1	100	-	_			Loam			
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L) 3 cm Muck (A10) (LRR K, L) 4 cm Muck (A10) (LRR K, L) 5 cm Muck (A10) (LRR K, L) 6 cm Muck (A10) (LRR	4-12		95	7.5 YR 5/6	5	- —	PL	Clay loam			
Indicators for Problematic Hydric Soils*: Histosol (A1)	12-24	10 YR 5/2	80	10 YR 5/6	20	C	M	Clay loam			
Indicators for Problematic Hydric Soils*: Histosol (A1)					_						
Indicators for Problematic Hydric Soils*: Histosol (A1)											
Indicators for Problematic Hydric Soils*: Histosol (A1)				-	_						
Indicators for Problematic Hydric Soils*: Histosol (A1)											
Indicators for Problematic Hydric Soils*: Histosol (A1)									· 		
Indicators for Problematic Hydric Soils*: Histosol (A1)		-									
Indicators for Problematic Hydric Soils*: Histosol (A1)											
Histosol (A1)				-	-						
Histosol (A1)	ype: C=Con	centration, D=Depletion	on, RM=Redu	uced Matrix, MS=Mas	ked Sand G	rains.		²Loca	ation: PL=P	ore Lining, M=	Matrix.
Histosol (A1)	dric Soil In	dicators:						Indicators	s for Proble	ematic Hvdric	: Soils³:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Stripped Matrix (S				Polyvalue Belov	v Surface (S	88) (LRR R.	MLRA 149			-	
Black Histic (A3)		•						· ·	•		•
Hydrogen Sulfide (A4) Stratified Layers (A5)	_						,				
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR I) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	– Hydroger	Sulfide (A4)									
Thick Dark Surface (A12)	Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyv	/alue Below	/ Surface (S8)	(LRR K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 144A, 145 Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	Depleted	Below Dark Surface ((A11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfac	ce (S9) (LRR	K, L)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	_)			ū	` '	,
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	_			Redox Depress	ions (F8)						
Stripped Matrix (S6)	_										44A, 145, 149E
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	_										- 40
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No			L D.A. 440D\								-12)
estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	_ Dark Sun	ace (S/) (LKK K, IVI	LRA 149B)					Otne	r (Expiain ir	i Remarks)	
Type:	ndicators of h	nydrophytic vegetation	n and wetland	d hydrology must be p	resent, unle	ss disturbed	or problem	natic.			
Type:	estrictive La	aver (if observed):									
Depth (inches): Hydric Soil Present? Yes X No											
emarks:								Hydric Soil P	resent?	Yes X	No
emarks:											<u> </u>
	emarks:										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqu	ia County	Sampling Date: 07/08/2020
Applicant/Owner:	' '	nnectGen LLC		State: New York	
· · · — — — — — — — — — — — — — — — — —	Matt Spadoni & Sam Parke		Township, Range:		vn of Ripley
Landform (hillslope, terrace, o			cave, convex, none):	Concave	
Subregion (LRR or MLRA):			.19705979 Long:		· · · <u>/</u>
	Vol			NWI classificatio	
	ditions on the site typical for the			no, explain in Remarks	
	oil, or Hydrology			Circumstances" presei	,
	oil, or Hydrology			plain any answers in	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			•	•
SUMIMART OF FINDIN	IGS - Attach site map s		oint locations, trans	ects, important i	eatures, etc.
Hydrophytic Vegetation Pre	esent? Yes X	No	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No
Wetland Hydrology Presen	it? Yes X	No	If yes, optional Wetland S	Site ID:	Wetland 33
Pomarke: (Evalain alternat	ivo procedures here or in a se	narato roport)			
Remarks. (Explain alternat	ive procedures here or in a se	parate report.)			
HYDROLOGY					
Wetland Hydrology Indic	ators:				
	ım of one required; check all th	nat apply)		Secondary Indica	tors (minimum of two required)
Surface Water (A1)	•	Water-Stained Leaves	(B9)	X Surface Soil	
High Water Table (A2)		Aquatic Fauna (B13)	(20)	X Drainage Pa	· ·
Saturation (A3)	<u> </u>	Marl Deposits (B15)		Moss Trim L	
X Water Marks (B1)	_	Hydrogen Sulfide Odor	· (C1)		Water Table (C2)
Sediment Deposits (B	-(2)	Oxidized Rhizospheres		Crayfish Bur	
Drift Deposits (B3)		Presence of Reduced	- · ·		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4		Recent Iron Reduction	` '		tressed Plants (D1)
_ ·	') <u> </u>	-			` '
Iron Deposits (B5)	Apriol Imagon (P7)	_ Thin Muck Surface (C7		X Geomorphic	
Inundation Visible on	-	Other (Explain in Rema	arks)	Shallow Aqu	
X Sparsely Vegetated C	oficave Surface (B8)				aphic Relief (D4)
				X FAC-Neutral	rest (D5)
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?	Yes No X	— · · · —	Wetland Hy	ydrology Present?	Yes X No
(includes capillary fringe)	100 110X	Deptit (mones).		yarology i resent.	165 <u>X</u> 146
(molades capillary linige)					
Describe Recorded Data (s	stream gauge, monitoring well	, aerial photos, previous ir	spections), if available:		
Remarks:					

Absolut Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	VEGETATION - Use scientific names of plants.				Sampling Point: 031-2W
Absolute					Dominance Test worksheet:
Absolute					Number of Dominant Species
Tree Stratum (Plot size: 30 %Cover Species? Status		Absolute	Dominant	Indicator	·
1. Salix discolor / Pussy willow 15 Yes FACW Species Across All Strata: 4 (B)	Tree Stratum (Plot size: 30)				
2	``				Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/B)	2				
Percent of Dominant Species That Ave OBL, FACW, or FAC: 75.0 (A/B)	^				Species Across Ail Strata4 (D)
That Are OBL, FACW, or FAC: 75.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				D. J. CD. J. A. Ornanian
Prevalence Index worksheet: Total Cover	<u></u>				·
Total Cover					That Are OBL, FACW, or FAC: /5.0 (A/B)
Total Cover Sapling/Shrub Stratum (Plot size: 15) Salix discolor / Pussy willow 80					Description and average hoof:
Saping/Shrub Stratum (Plot size:	7				
Salix discolor Pussy willow 80 Yes FACW FACW FACW FAC species 100 x 2 = 200 FAC species 100 x 4 = 40 FAC FAC species 100 x 4 = 40 FAC FAC FAC Species 100 x 4 = 40 FAC FAC Species 100 x 4 = 40 FAC FAC Species 100 x 4 = 40 FAC Species 100 x 2 = 100 FAC Species 100 x 2 = 100 FAC Species 100 x 4 = 40 FAC Species 100 x 2 = 100 FAC Species		15	_ = Total Cov	/er	
2. Rosa multiflora i Multiflora rosa, Multiflora rosa 10 No FACU 3.					
3.	Salix discolor / Pussy willow	80	Yes	FACW	
UPL species 0 x 5 = 0 Column Totals: 110 (A) 240 (B)	2. Rosa multiflora / Multiflora rose, Multiflora rosa	10	No	FACU	
A	3.				
Column Iolais: 110	4.				UPL species 0 x 5 = 0
6.	E				Column Totals:110(A)240(B)
Perb Stratum (Plot size: 5 5 5 7 7	•				Prevalence Index = B/A = 2.18
Herb Stratum (Plot size: 5) Total Cover Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) (Explain) Horbitanian Hydrophytic Vegetation Hydrophytic Vegetation (Explain) Horbitanian Hydrophytic Vegetation Hydrophyti	<u>-</u>				
Herb Stratum	1.		- Total Cox		Hydrophytic Vegetation Indicators:
Petro Stratum (Plot size: 5 1. Potentilla / Cinquefoil 5 Yes FACW 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 1 - Vegetation Strate 1 - V		90	_ = 10181 004	er	X 1 - Rapid Test for Hydrophytic Vegetation
1. Potentilla / Cinquefoil 2. Onoclea sensibilis / Sensitive fern 3.		_			
2. Onoclea sensibilis / Sensitive ferm 3. 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 1 O = Total Cover Hydrophytic Vegetation					
A	Onoclea sensibilis / Sensitive fern	5	Yes	FACW_	
4	3				
5	4				Floblematic Hydrophytic vegetation (Explain)
6	F		<u> </u>		41 P. Asses of Excellent and problems by declarate mount
7. Be present, unless distribution by problematic. 8. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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 of size, and woody plants less than 3.28 ft tall. 13. Woody vines - All woody vines greater than 3.28 ft in height. 15. Woody vines - All woody vines greater than 3.28 ft in height. 16. Woody vines - All woody vines greater than 3.28 ft in height.					, , , , , , , , , , , , , , , , , , , ,
B. Definitions of Vegetation Strata Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	-				be present, unless disturbed or problematic.
9.	0				D. Christian - 4 Many Applican Oderska
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O	0				Definitions of vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The proof of the pro					
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	10.				
Woody Vine Stratum (Plot size:30) 1	11				
Woody Vine Stratum (Plot size: 30) 1.	12				
1	··	10	_ = Total Cov	er er	greater than or equal to 3.28 ft (1 m) tall.
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	Woody Vine Stratum (Plot size: 30)				
3	1				size, and woody plants less than 3.28 ft tall.
3	2				Woody vines - All woody vines greater than 3.28 ft in
4	3.				
0 = Total Cover Hydrophytic Vegetation	4.				
Vegetation			= Total Cov	/er	Hvdrophytic
		-	-		
					FIGSEIL: 100 // 110
Remarks: (Explain alternative procedures here or in a separate report.)	Tolliano. (Explain altornauro procede es noto et in a sepen-	no roporti,			
(

SOIL Sampling Point: 031-2W

Depth	ription: (Describe to the Matrix	<u> </u>		r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/2	90	10YR 4/6	10	С	М	Loam			
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=Po	ore Lining, M=Ma	atrix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric S	oile3.
Histosol			Polyvalue Belov	v Surface (S9) (I DD D	MI DA 140E) (LRR K, L, ML	
	` '									•
	pipedon (A2)		Thin Dark Surfa			(1490)			dox (A16) (LRR	
	stic (A3)		Loamy Mucky N		LRK N, L)				t or Peat (S3) (L	N, L, K)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed NX Depleted Matrix					-	7) (LRR K, L) Surface (S8) (L	DD K I)
	d Below Dark Surface (/	۸ 1 1 ۱	Redox Dark Sur						ce (S9) (LRR K,	
	ark Surface (A12)	~!! <i>)</i>	Depleted Dark S						Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi					-	plain Soils (F19)	
	Gleyed Matrix (S4)		Redox Depressi	ions (i o)					A6) (MLRA 144	
	Redox (S5)							Parent Mate		A, 143, 143D)
	Matrix (S6)								rk Surface (TF12) \
	rface (S7) (LRR R, ML	DA 1/0B)						r (Explain in		-)
Daik Su	nace (57) (LIKIK IK, IML	.KA 1430)						(Explain iii	i itelliaiks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
	.ayer (if observed):									
Type:	ah aa\.						Uhrdeia Cail D		Van V	No
Depth (in	cnes).						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020	- South Ripley	(City/County:	Chautaug	ua County	Sampling Date:	07/08/2020
Applicant/Owner:		Conr	ectGen LLC	, , <u>-</u>	'	State: New York	-	032-1U
Investigator(s):	Matt Spa	adoni & Sam Parker	(Section, Town	ship, Range:	Tov	wn of Ripley	
Landform (hillslope, ter	rrace, etc):	Mound	Local reli	ief (concave, o	onvex, none):	Convex	Slope	(%): 3-5
Subregion (LRR or ML		RR R MLRA 139	Lat:	42.19875	184 Long:	-79.756217	57 Datun	n: NAD 83
Soil Map Unit Name:		Volus	sia channery silt	loam		NWI classification	on:	
Are climatic / hydrologi	c conditions on th	ne site typical for this	time of year? `	Yes X	No (If	no, explain in Remark	ss.)	
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed?	Are "Normal	Circumstances" prese	ent? Yes >	K No
Are Vegetation	, Soil	, or Hydrology	naturally pro	blematic?	(If needed, e	xplain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Att	ach site map sh	owing samp	oling point	locations, trans	sects, important	features, etc.	
Hydrophytic Vegetat		Yes X	No		he Sampled Area			
Hydric Soil Present?		Yes	No X	-	nin a Wetland?	Yes	No X	
Wetland Hydrology F		Yes	No X	•	es, optional Wetland			_
Remarks: (Explain a	Iternative procedu	ures here or in a sepa	arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicatore:							
		equired; check all tha	t annly)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (equired, crieck all tha	Water-Stained	Leaves (R9)			l Cracks (B6)	wo required)
High Water Tab	` '	_	Aquatic Fauna	` ,			atterns (B10)	
Saturation (A3)		_	Marl Deposits (. ,		Moss Trim L		
Water Marks (B		_	Hydrogen Sulfi				Water Table (C2)	
Sediment Depo	•				ving Roots (C3)	Crayfish Bu		
Drift Deposits (F		_	Presence of Re	-			/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•		Recent Iron Re	•	· ·		Stressed Plants (D1	
Iron Deposits (E		_	Thin Muck Surf		(,		Position (D2)	.,
	ole on Aerial Imag	ery (B7)	Other (Explain	. ,		Shallow Aqu		
	ated Concave Su			•			aphic Relief (D4)	
_ ` ` ` `						FAC-Neutra	l Test (D5)	
						<u> </u>		
Field Observations		N V	5 " " 1	,				
Surface Water Prese		s NoX						
Water Table Present		s NoX	- ' '	· —	<u> </u>		.,	N V
Saturation Present?		s NoX_	Depth (inches	S):	Wetland F	lydrology Present?	Yes	No X
(includes capillary fri	inge)							
Describe Recorded I	Data (stream gau	ge, monitoring well, a	erial photos, pre	evious inspect	ons), if available:			
	3	3-, 3 - , -	, , , , , ,		,,			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: 032-1U
				Dominance Test worksheet: Number of Dominant Species
Tree Stratum (Plot size:)	Absolute <u>%Cover</u>	Dominant Species?	Indicator Status	That Are OBL, FACW, or FAC: 2 (A)
1				Total Number of Dominant Species Across All Strata: 3 (B)
3.				
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6				Prevalence Index worksheet:
7	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	10	Voo	EAC\A/	OBL species 0 x 1 = 0 FACW species 30 x 2 = 60
Fraxinus pennsylvanica / Green ash Example 2.	10	Yes	FACW	FAC species 30 x 3 = 90
3.			· · · · · · · · · · · · · · · · · · ·	FACU species 60 x 4 = 240
4.				UPL species 0 x 5 = 0
5				Column Totals: 120 (A) 390 (B) Prevalence Index = B/A = 3.25
6				Prevalence index – B/A – 3.25
<i>1</i>	10	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5		_		1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	50	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Solidago rugosa / Wrinkle-leaf goldenrod	30	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Phalaris arundinacea / Reed canarygrass, Reed canary gras		No No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Rubus idaeus / Common red raspberry .	10	No	<u>FACU</u>	
6.			-	¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9				
10.		-	-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11. 12.				breast height (DBH), regardless of height.
		= Total Cov	er	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	- <u></u>			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3.				Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	 er	Hydrophytic
		_		Vegetation
				Present? Yes No
Remarks: (Explain alternative procedures here or in a separate	report)			
Remarks. (Explain alternative procedures here of in a separate	report.)			

SOIL Sampling Point: 032-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 4/3 100 0-18 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 -	South Ripley		City/Cou	ınty:	Chautauqua	County	Sampling Date:	07/08/2020
Applicant/Owner:			ConnectGen LLC	_ ′	, 		ate: New York	· · ·	032-1W
Investigator(s):		AM JMG		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terrac			Local	_	cave, convex, n		Concave	Slope	e (%): 0-5
Subregion (LRR or MLRA)		R R MLRA 13			19881625	Long:	-79.756370	·	`
Soil Map Unit Name:	,. <u>Liu</u>		Volusia Channery				NWI classificati		10.00
Are climatic / hydrologic co	anditions on the					(If no	_ rvvi classificati , explain in Remarl	-	
Are Vegetation,							cumstances" pres	•	X No
			naturally				ain any answers ir		
SUMMARY OF FIND	·		·			·-	•	•	
							zis, important	reatures, etc.	
Hydrophytic Vegetation	Present?	Yes	X No		Is the Samp				
Hydric Soil Present?		Yes	X No		within a We		Yes X		_
Wetland Hydrology Pres	sent?	Yes	X No		If yes, option	nal Wetland Sit	e ID:	032	
Remarks: (Explain alter	native procedure	es here or in a	a separate report.)						
HYDROLOGY									
Wetland Hydrology Inc	dicators:								
Primary Indicators (mini		uired: check a	all that annly)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	-	Juli 54, 5115511 5	Water-Stair	ed Leaves	(B9)			il Cracks (B6)	ooquou/
High Water Table (•		Aquatic Fau		()			atterns (B10)	
Saturation (A3)	,		Marl Depos					Lines (B16)	
Water Marks (B1)			Hydrogen S	,	(C1)			Water Table (C2)	
Sediment Deposits	(B2)		X Oxidized RI			ts (C3)	Crayfish Bu	, ,	
Drift Deposits (B3)	` '		Presence o		_	(,		Visible on Aerial Ima	agery (C9)
Algal Mat or Crust					in Tilled Soils (C6)		Stressed Plants (D1	
Iron Deposits (B5)	()		Thin Muck		•	,		c Position (D2)	• ,
Inundation Visible	on Aerial Image	rv (B7)	Other (Expl	-	•		Shallow Aq		
Sparsely Vegetated	-	•			,			raphic Relief (D4)	
							X FAC-Neutra		
							<u> </u>		
Field Observations:									
Surface Water Present?	•	No _	X Depth (inc	· ·					
Water Table Present?	Yes	No _	X Depth (inc	· —					
Saturation Present?	Yes	No _	X Depth (inc	:hes):		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fringe	;)								
Describe Recorded Data	a (stream gauge	monitoring v	well aerial nhotos	nrevious in	spections) if a	vailable:			
Describe Recorded Date	a (stream gauge	, morntoring v	well, aeriai priotos,	previous in	ispections), ii a	valiable.			
Remarks:									
1									

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	THAT AIC OBE, I AOW, OF I AO.
e Stratum (1 lot 5126	7000vc.	Эрсою.	Status	Total Number of Dominant
				Species Across All Strata: 3 (B)
				The state of the s
				Percent of Dominant Species That Are ORL FACIAL or FAC: 100.0 (A/R)
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
	0	_ = Total Cove	er	Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size:)				OBL species 55 x 1 = 55
				FACW species 30 x 2 = 60
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: <u>85</u> (A) <u>115</u> (B)
			- ——	Prevalence Index = B/A = 1.35
		-		
	0	= Total Cove		Hydrophytic Vegetation Indicators:
· · · · · · · · · · · · · · · · · · ·	<u> </u>	_ = 10tai 00v	er	X 1 - Rapid Test for Hydrophytic Vegetation
Pro Stratum (Plot size: 5)	20	M- n	201	X 2 - Dominance Test is >50%
Carex Iurida / Shallow sedge	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
Phalaris arundinacea / Reed canarygrass, Reed canary gras		Yes	FACW	4 - Morphological Adaptations (Provide supporting
Scirpus cyperinus / Woolgrass	25	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
				FIODiciliatio Frydrophytio Vogotation (Exp.s)
				41. 11. I fam of budgle sell and watland hydrology must
				¹Indicators of hydric soil and wetland hydrology must
			• ———	be present, unless disturbed or problematic.
				Policitions of Venetation Strate
			- —	Definitions of Vegetation Strata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
·			<u> </u>	Sapling/shrub - Woody plants less than 3 in. DBH and
	85	_ = Total Cove	ər	greater than or equal to 3.28 ft (1 m) tall.
pody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	= Total Cove	er	Hydrophytic
		-		Vegetation
				_
				Present? Yes X No

 SOIL
 Sampling Point: ____032-1W

Depth	ription: (Describe to th Matrix	<u> </u>		Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10 YR 3/1	90	7.5 YR 4/6	10	С	PL,M	Loam			
		,								
				-						
				-						
			_							
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	Pore Lining, M=M	atrix.
Hydric Soil I									ematic Hydric S	
Histosol	` '		Polyvalue Belov) (LRR K, L, ML	-
	oipedon (A2)		Thin Dark Surfa						edox (A16) (LRI	
	stic (A3)		Loamy Mucky M		LRR K, L)				at or Peat (S3) (I	LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	(137) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						v Surface (S8) (I	
Deplete	d Below Dark Surface (A	\11)	X Redox Dark Sur				Thin	Dark Surfa	ce (S9) (LRR K	, L)
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
Sandy N	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
	Gleyed Matrix (S4)								A6) (MLRA 14 4	IA, 145, 149B)
Sandy F	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Othe	r (Explain ii	n Remarks)	
21 1' 1 1							e.			
Indicators of	hydrophytic vegetation	and wetland	nydrology must be p	resent, unies	s disturbed	or problema	ATIC.			
Restrictive L	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Dama alkai										
Remarks:										

Project/Site:	19020 - South Ripley	City/Co	ounty: Ch	nautauqua County	Sampling Date:	07/08/2020
Applicant/Owner:		onnectGen LLC		State: New York		033-1U
Investigator(s):	MS, SPF	Section	n, Township, Range:		wn of Ripley	
Landform (hillslope, terrace,			ncave, convex, none)		Slope	(%): 2
Subregion (LRR or MLRA):	LRR R MLRA 139		2.19721689	Long: -79.756249	•	` '
Soil Map Unit Name:		olusia channery silt loam		NWI classification	on:	
	ditions on the site typical for t	his time of year? Yes	X No	(If no, explain in Remark	(s.)	
Are Vegetation X , S	oil, or Hydrology _	significantly disturb	ped? Are "I	Normal Circumstances" prese		X No
	oil , or Hydrology			eded, explain any answers in	Remarks.)	
SUMMARY OF FINDI	NGS - Attach site map	showing sampling	point locations.	transects, important	features, etc.	
Hydrophytic Vegetation P			Is the Sampled		·	
Hydric Soil Present?	Yes	No X	within a Wetlan		No X	
Wetland Hydrology Prese		No X		Vetland Site ID:		=
			, 500, 0,000.00			
Remarks: (Explain alterna Mowed road	ative procedures here or in a s edge	separate report.)				
HYDROLOGY						
Wetland Hydrology India	cators:					
	um of one required; check all	that apply)		Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)		Water-Stained Leave	s (B9)	Surface Soi	l Cracks (B6)	
High Water Table (A2	2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)	-	Marl Deposits (B15)		Moss Trim I	_ines (B16)	
Water Marks (B1)	<u>.</u>	Hydrogen Sulfide Ode	or (C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (32)	Oxidized Rhizosphere	es on Living Roots (C	C3) Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Reduced	l Iron (C4)		/isible on Aerial Ima	
Algal Mat or Crust (B	4)	Recent Iron Reductio	` ,		Stressed Plants (D1	1)
Iron Deposits (B5)	-	Thin Muck Surface (C	•	 ·	Position (D2)	
	Aerial Imagery (B7)	Other (Explain in Ren	narks)	Shallow Aq		
Sparsely Vegetated	Concave Surface (B8)			- : •	raphic Relief (D4)	
				FAC-Neutra	ii iesi (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):	We	etland Hydrology Present?	Yes	No X
(includes capillary fringe)						
Describe Descrided Date	(otroom gauge, monitoring we	all parial photos provious	inapactions) if avails			
Describe Recorded Data	(stream gauge, monitoring we	eli, aeriai priotos, previous	inspections), ii availa	able.		
Remarks:						

Absolute Dominant Indicator Sycore Syc	/EGETATION - Use scientific names of plants.				Sampling Point: 033-1U
Absolute Absolute Species Status That Are OBL, FACW, or FAC: 1					Dominance Test worksheet:
Absolute Dominant Indicator Species Status Total Are OBL, FACW, or FAC: 1 (A)					Number of Dominant Species
Tree Stratum (Plot size: 30 %Cover Species Status		Absolute	Dominant	Indicator	·
1. Acer rubrum / Red maple 30 Yes FAC Species Across All Stratus: 3 (B) 2. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	Tree Stratum (Plot size: 30)				
Species Across All Strata: 3 (B)					Total Number of Dominant
3.	·				
Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)	^				Species Across Air Strata (B)
That Are OBL, FACW, or FAC: 33.3 (A/E)			_	. ———	Description of Description of Original
Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: Total % Cover of: Multiply by: Total % Cover of: Tota				· 	•
Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: Total Cover of: T					That Are OBL, FACW, or FAC: 33.3 (A/B)
Total Cover Sapling/Shrub Stratum (Plot size: 15) 10 Yes	6				Provolence Index worksheets
Saping/Shrub Stratum (Plot size: 15) 10 Yes FACU Species 0 x 1 = 0 FACW species 0 x 2 = 0 FACW species 0 x 2 = 0 FACW species 0 x 4 = 240 FACW species 60 x 5 = 0 FACW species 60 x 1 = 0	7				
10		30	_ = Total Cove	er	
2.					
FACU species 60 x 4 = 240	1. Cornus / Dogwood	10	Yes		
A	2				
Column Totals: 90 (A) 330 (B)	0				<u> </u>
5. Column Totals: 90 (A) 330 (B) Prevalence Index = B/A = 3.67	4				UPL species 0 x 5 = 0
6.	-				Column Totals: 90 (A) 330 (B)
The common timothy, Cultivated timothy 1. Phleum pratense / Common timothy, Cultivated timothy 2. Ranunculus / Buttercup 3. Potentilla / Cinquefoil 4.	•			· 	Prevalence Index = B/A = 3.67
Herb Stratum (Plot size: 5) 1. Phileum pratense / Common timothy, Cultivated timothy 60 Yes FACU 2. Dominance Test is >50% 3. Prevalence Index ≤3.0¹ 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 1. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 1. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 1. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 1. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain) 1. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation S. Prevalence Index ≤3.0¹ 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Explain Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Morphological Adaptations (Provide Station Morphological Adaptations (Provide Station Morphological Adaptations (Provide Station Morphological Adaptations (Provide Station Morp	7		_	· 	
Herb Stratum (Plot size:5	1.		- Total Cov		Hydrophytic Vegetation Indicators:
1. Phleum pratense / Common timothy, Cultivated timothy 2. Ranunculus / Buttercup 3. Potentilla / Cinquefoil 4. Spring / Spring	Harb Ctrature (Diet sine) 5	10	_ = 10(a) COVE	5 1	1 - Rapid Test for Hydrophytic Vegetation
2. Ranunculus / Buttercup 3. Potentilla / Cinquefoil 4. 5. 6. 7. 8. 9. 10. 11. 12. 12. 12. 13. Prevalence Index \$3.0" 4 - Morphological Adaptations (Provide supporting — Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 10. 11. 12. 12. 13. Prevalence Index \$3.0" 4 - Morphological Adaptations (Provide supporting — Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 11. 12. 13. Sapling/shrub - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 1 Woody vines - All woody vines greater than 3.28 ft in height.				540 11	2 - Dominance Test is >50%
2. Ranunculus / Buttercup 3. Potentilla / Cinquefoil 4. 5. 6. 7. 8. 9. 10. 11. 12. 12. Woody Vine Stratum (Plot size: 30) 1. 2. Mo 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation			_	FACU	3 - Prevalence Index ≤3.0¹
2 No Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					4 - Morphological Adaptations (Provide supporting
5.	3. Potentilla / Cinquefoil	2	No		
6.	4	_	_		resistance representation (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata	5				1Indicators of hydric soil and wotland hydrology must
7. Be present, unless distanced of problematic. 8. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	6.				
8	7				be present, unless disturbed or problematic.
9.	<u>`</u>				Definitions of Vegetation Strate
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	^			· 	Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: Description:					
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	11			· 	
Woody Vine Stratum (Plot size: 30) 1.	11.				
Woody Vine Stratum (Plot size: 30) 1	12.		T-4-1 0		
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation	W 1 M 01 1 (D) 1	67	_ = lotal Cove	er	greater than or equal to 3.28 π (1 m) tall.
2 Woody vines - All woody vines greater than 3.28 ft in height. 4 0 = Total Cover Hydrophytic Vegetation	· — · — · — · · — · · · · · · · · · · ·				, ,,,
3			_		size, and woody plants less than 3.28 ft tall.
4	2				Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Vegetation	3		_		height.
Vegetation	4				
		0	= Total Cove	er	Hydrophytic
Present? Yes No X					Vegetation
					Present? Yes No X

SOIL Sampling Point: 033-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc2 (inches) Color (moist) Type¹ Texture Remarks 10YR 5/3 100 Sand 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautauqua	a County	Sampling Date: 07/08/2020
Applicant/Owner:	' '	nectGen LLC	·	State: New York	
	Matt Spadoni & Sam Parker		Township, Range:		n of Ripley
Landform (hillslope, terrace, e			cave, convex, none):	Concave	
Subregion (LRR or MLRA):			19523794 Long:		
Soil Map Unit Name:				NWI classificatio	
Are climatic / hydrologic condi				o, explain in Remarks	
, ,	l, or Hydrology		`	ircumstances" preser	,
	I, or Hydrology			plain any answers in I	
SUMMARY OF FINDING				•	•
	-			cts, important i	eatures, etc.
Hydrophytic Vegetation Pre		No	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	
Wetland Hydrology Present	? Yes <u>X</u>	No	If yes, optional Wetland S	ite ID:	Wetland 33
Remarks: (Explain alternation	ve procedures here or in a seg	parate report)			
rtomarke. (Explain alternati	vo proceduros nero er in a cep	and roport.)			
HYDROLOGY					
Wetland Hydrology Indica	tors:				
Primary Indicators (minimur	n of one required; check all th	at apply)		Secondary Indica	tors (minimum of two required)
Surface Water (A1)	<u>X</u>	Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
High Water Table (A2)		Aquatic Fauna (B13)		X Drainage Pa	tterns (B10)
Saturation (A3)		Marl Deposits (B15)		Moss Trim Li	ines (B16)
Water Marks (B1)		Hydrogen Sulfide Odor	· (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2	<u>X</u>	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	
Drift Deposits (B3)		Presence of Reduced I	ron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	in Tilled Soils (C6)	X Stunted or S	tressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C7	')	X Geomorphic	Position (D2)
Inundation Visible on A	verial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	itard (D3)
X Sparsely Vegetated Co	oncave Surface (B8)			Microtopogra	aphic Relief (D4)
				X FAC-Neutral	Test (D5)
Field Observations					
Field Observations:	Van Na V	Donth (inches)			
Surface Water Present?	Yes No X Yes No X	_ ' '			
Water Table Present?		– · · · <i>-</i> —			V N V
Saturation Present?	Yes NoX	Depth (inches):	wetland Hy	drology Present?	Yes NoX
(includes capillary fringe)					
Describe Recorded Data (s	tream gauge, monitoring well,	aerial photos, previous ir	nspections), if available:		
((,,		
Remarks:					

Tree Stratum (Plot size: 30) %Cover Species? Status 1. Acer rubrum / Red maple 60 Yes FAC Total Number of Dominant 2. Fraxinus pennsylvanica / Green ash 30 Yes FACW Species Across All Strata: 4 5. — — Percent of Dominant Species That Are OBL, FACW, or FAC: 100 6. — — That Are OBL, FACW, or FAC: 100 7. — — Facular Cover OBL species 0 x 1 = 1. Fraxinus pennsylvanica / Green ash 15 Yes FACW FACW species 50 x 2 = 5. — — FACU species 0 x 4 = UPL species 0 x 5 = 6. —	4 (A) 4 (B) 100.0 (A/B)		Naminanaa Taat wankabaati				
Absolute Dominant Indicator Species Status	4 (B)	ies	Jominance Test Worksneet:				
Tree Stratum (Plot size: 30)	4 (B)		Number of Dominant Species				
1.	、 ,	AC: 4	That Are OBL, FACW, or FAC:	Indicator	Dominant	Absolute	
2. Fraxinus pennsylvanica / Green ash 3.0 Yes FACW 3. 4. 5. 6. 7. 8. 90 = Total Cover Sapling/Shrub Stratum (Plot size: 15) 1. Fraxinus pennsylvanica / Green ash 3.	、 ,	·		Status	Species?	%Cover	Tree Stratum (Plot size:)
2	、 ,		Total Number of Dominant	FAC	Yes	60	1. Acer rubrum / Red maple
Percent of Dominant Species That Are OBL, FACW, or FAC: 10th	100.0 (A/B)	4	Species Across All Strata:	FACW	Yes	30	2. Fraxinus pennsylvanica / Green ash
That Are OBL, FACW, or FAC: 100		·					3.
5. That Are OBL, FACW, or FAC: 100 6. 7. Sapling/Shrub Stratum (Plot size: 15) 90 = Total Cover Total % Cover of: Multip OBL species 0 x 1 = Total % Cover of: PACW species 50 x 2 = FACW species 50 x 2 = FACW species 60 x 3 = FACW species 60 x 3 = FACU species 0 x 4 = UPL species 0 x	100.0 (A/B)	ies	Percent of Dominant Species				4.
Prevalence Index worksheet: Total % Cover of: Multip		AC: 100	That Are OBL, FACW, or FAC:				_
Prevalence Index worksheet: Total X Cover of: FACW species 50		·					•
Sapling/Shrub Stratum (Plot size:15)		eet:			- '-		_
FACW species 50 x 2 = FACW FACW FACW FACW FACW species 50 x 3 = FACW	ultiply by:	Multipl	Total % Cover of:	er	= Total Cov		
2. 3. 4. 4. 5. 6. 7. 8. 9. 15. = Total Cover 15. Yes FACW 2. 3.	0	x 1 =			_		Sapling/Shrub Stratum (Plot size: 15)
FACU species 0	100	x 2 =		FACW	Yes	15	1. Fraxinus pennsylvanica / Green ash
3.	180	x 3 =			- '-		2.
4. Column Totals: 110	0	x 4 =			- '-		3.
5. 6. Column Totals: 110 (A) Prevalence Index = B/A = 2.9 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Morphological Adaptations (Provide Problematic Hydrophytic Vegetation* (E - Problematic Hydrophytic Vegetation* (E - Indicators of hydric soil and wetland hydrological expression in the problematic. 5 - Indicators of hydric soil and wetland hydrological expression in the problematic. 5 - Indicators of hydric soil and wetland hydrological expression in the problematic. 5 - Indicators of hydric soil and wetland hydrological expression in the problematic. 5 - Indicators of hydric soil and wetland hydrological expression in the problematic. 5 - Indicators of hydric soil and wetland hydrological expression in the problematic. Tree - Woody plants 3 in. (7.6 cm) or more in the problematic in th	0	x 5 =					
6.	280 (B	(A)	Column Totals: 110				E
Tree - Woody Vine Stratum (Plot size:	2.55	B/A = 2.5	Prevalence Index = B/A =				
Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 5 Yes FACW X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide Problematic Hydrophytic Vegetation¹ (E Problematic Hydrophytic Vegetation² (Problematic Hydrophytic Vegetation² (E Problematic Hydrophytic Vegetation² (E Proble					-		_
Herb Stratum (Plot size:5			• • •	er	= Total Cov		
1. Onoclea sensibilis / Sensitive fern 2.	ation				-		Herb Stratum (Plot size: 5)
2.				FACW	Yes	5	
3					-		
4		•		· 			
5	¹ (Explain)	rtic Vegetation¹ (Ex	Problematic Hydrophytic Venture				A
6				· 			
be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than height.	rology must	d wetland hydrolog	Indicators of hydric soil and we	· 			•
8	itic.	ed or problematic.	e present, unless disturbed or				-
9. Tree - Woody plants 3 in. (7.6 cm) or more in breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) 1. Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than height.							0
Tree - Woody plants 3 in. (7.6 cm) or more in breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than height.		Strata	Definitions of Vegetation Stra	-			^
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than height.				-			
Sapling/shrub - Woody plants less than 3 in greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, resize, and woody plants less than 3.28 ft tall. 2.				-			11
Woody Vine Stratum (Plot size: 30) 1.		_			-		11.
Woody Vine Stratum (Plot size: 30) 1.					- Total Cav		12.
1				31	_ = 10tal C0V	5	Woody Vino Stratum (Plot size: 30
2 Woody vines - All woody vines greater than height.							1
3. height.					-		
	han 3.28 ft in	vines greater than		· 			2.
4.			neignt.	· 			3.
T L LO			leaders in leading	· 			4
0 = Total Cover Hydrophytic				er	_ = lotal Cov	0	
Vegetation Vegetation		V N-	_				
Present? Yes X No _	·	X No	resent? Yes /				

 SOIL
 Sampling Point:
 033-1W

Depth	Matrix			k Features			ce of indicator	•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-14	10YR 3/2	90	5YR 4/4	10	С	PL	Mucky loam			
14-18	10YR 4/2	90	5YR 4/4	10	С	PL	Clayey loam			
			•	-						
,						,				
,						,				
			-							
			-							
Type: C=Con	centration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=Mat	ix.
ydric Soil Ir									ematic Hydric So	
Histosol	` '		Polyvalue Belov) (LRR K, L, MLR	-
	ipedon (A2)		Thin Dark Surfa			149B)			dox (A16) (LRR	
Black His			Loamy Mucky M		LRR K, L)				it or Peat (S3) (LF	R K, L, R)
	n Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	
	Layers (A5)		Depleted Matrix						Surface (S8) (LF	
	Below Dark Surface (A	(11)	X Redox Dark Sur						ce (S9) (LRR K, I	
	rk Surface (A12)		Depleted Dark S					ū	Masses (F12) (I	
	ucky Mineral (S1)		Redox Depressi	ions (F8)					olain Soils (F19) (I	
	leyed Matrix (S4)								A6) (MLRA 144A	, 145, 149B)
	edox (S5)							Parent Mate		
	Matrix (S6)								rk Surface (TF12)	
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	r (Explain in	Remarks)	
Indicators of	hydrophytic vegetation a	and watton	d bydrology must be n	rocent unles	a diaturbad	or problem	natio			
iliulcators or	nyurupnyuu vegetation a	and wellan	a flydrology fflust be p	resent, unies	s disturbed	or problem	ialic.			
	ayer (if observed):									
Restrictive La	ayer (if observed):									
estrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
testrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020 - S	South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	07/08/2020
Applicant/Owner:		Cor	nnectGen LLC	•	<u></u>	Sta	ate: New York	Sampling Point:	034-1U
Investigator(s):		IG JAM		Section,	Township, Rar	nge:	To	wn of Ripley	
Landform (hillslope, terrace	e, etc):	hilllope	Local r		ave, convex, n	~	concave	Slope	: (%): 5-10
Subregion (LRR or MLRA):		•	Lat:		19495081	Long:	-79.759095		
			usia channery s				NWI classificati		
Are climatic / hydrologic co						(If no,	– explain in Remarl		
Are Vegetation,						re "Normal Cir	cumstances" pres	ent? Yes	X No
		or Hydrology					ain any answers ir		
SUMMARY OF FIND						ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation F		Yes			Is the Samp		, <u>, , , , , , , , , , , , , , , , , , </u>	•	-
Hydric Soil Present?	resent:	Yes			within a We		Yes	No X	
Wetland Hydrology Prese	ent?	Yes		_		nal Wetland Site	· · · · · · · · · · · · · · · · · · ·	110	_
Remarks: (Explain altern upland poin	native procedures		parate report.)						
HYDROLOGY									
Wetland Hydrology Ind	icators:								
Primary Indicators (minin		ired: check all th	at apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)			Water-Staine	d Leaves (B9)			il Cracks (B6)	
High Water Table (A	\ 2)		Aquatic Faun	ia (B13)	•		Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits					Lines (B16)	
Water Marks (B1)		<u> </u>	Hydrogen Su	Ifide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)	_	Oxidized Rhi	zospheres	on Living Roo	ts (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		_	Presence of I	Reduced Ir	on (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	_	Recent Iron F	Reduction i	n Tilled Soils (C6)	Stunted or	Stressed Plants (D´	1)
Iron Deposits (B5)		_	Thin Muck Su					c Position (D2)	
Inundation Visible o			Other (Explai	in in Remai	rks)		Shallow Aq		
Sparsely Vegetated	Concave Surface	ce (B8)						raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present?	Yes	No X	Depth (inch	es):					
Water Table Present?	Yes	No X	Depth (inch	es):					
Saturation Present?	Yes	No X	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fringe))				_				<u></u>
Describe Recorded Data	(stream gauge,	monitoring well,	aeriai photos, p	previous ins	spections), if a	vailable:			
Remarks:									

30 Plot size:1	15)	0	Species? = Total Cove		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Description of Dominant Species That Are OBL, FACW, or FAC: Description of Dominant Species That Are OBL, FACW, or FAC: Description of Dominant Species That Are OBL, FACW, or FAC: Description of Dominant Species That Are OBL, FACW, or FAC: Description of Dominant Species Multiply by: Description of Dominant Species Total % Cover of: Description of Dominant Species Multiply by: Description of Dominant Species Total % Cover of: Description of Dominant Species Total % Cover of: Description of Dominant Species Total % Cover of: Description of Dominant Species Number of Dominant Species Number of Dominant Species Output Number of Dominant Species Number
Plot size:1	15)	%Cover	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: O.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Plot size:1	15)	%Cover	Species? = Total Cove	Status	Total Number of Dominant Species Across All Strata: Dercent of Dominant Species That Are OBL, FACW, or FAC: Dominant Species That Are OBL, FACW, or FAC: Dominant Species That Are OBL, FACW, or FAC: Multiply by:
Plot size:1	15)	0	= Total Cove		Species Across All Strata: 0 (B) Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Multiply by:
Plot size:1	15)	0	= Total Cove		Species Across All Strata: 0 (B) Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Multiply by:
Plot size:1	15)	0	= Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: O.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Plot size:1	15)	0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Plot size:1	15)	0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Plot size: 1	15)	0	= Total Cove		Prevalence Index worksheet:
Plot size:1	15)	0	= Total Cove	er	Total % Cover of: Multiply by:
Plot size: 1	15)	0	_	er	
		_	_		OBL species $0 \times 1 = 0$
					FACW species 0 x 2 = 0
			-		FAC species 0 x 3 = 0
					FACU species 0 x 4 = 0
					UPL species 0 x 5 = 0
					Column Totals: 0 (A) 0 (B)
					Prevalence Index = B/A = 0.0
		0	= Total Cove	er	Hydrophytic Vegetation Indicators:
5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
					2 - Dominance Test is >50%
					3 - Prevalence Index ≤3.0¹
					4 - Morphological Adaptations (Provide supporting
					Problematic Hydrophytic Vegetation¹ (Explain)
					¹ Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
					Definitions of Vegetation Strata
					Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
					breast height (DBH), regardless of height.
			- Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
ot sizo: 30	`		_ = 10(a) Cove	; 1	greater than or equal to 3.28 ft (1 m) tall.
л size	/				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
					Woody vines - All woody vines greater than 3.28 ft in
					height.
		0	_ = Total Cove	er	Hydrophytic
					Vegetation
					Present? Yes No
	ot size: 30				

SOIL Sampling Point: 034-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² (inches) Color (moist) Color (moist) Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) ___ Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: No Depth (inches): **Hydric Soil Present?** Remarks:

Project/Site:	19020 - S	South Ripley		City/Count	v:	Chautauqua (County	Sampling Date:	07/08/2020
Applicant/Owner:			nectGen LLC	,		•	ate: New York		034-1U
Investigator(s):	JN	//G JAM		Section, To	ownship, Rang	-		wn of Ripley	
Landform (hillslope, terra			Local r		e, convex, no		Convex		e (%): 0-5
Subregion (LRR or MLR			Lat:	-	9495701		-79.759091	·	` '
Soil Map Unit Name:	, 		isia channery s				NWI classificati		
Are climatic / hydrologic	conditions on the s				No	(If no,	explain in Remarl	(s.)	
Are Vegetation	, Soil , o	r Hydrology	significant	ly disturbed?	<u></u>		cumstances" prese		X No
Are Vegetation						needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN		-				-	•	•	
						•	to, important	10010100, 0101	
Hydrin Soil Broomt?	on Present?	Yes Yes	NoX X		Is the Sampl		Voo	No. V	
Hydric Soil Present?	rocent?				within a Wet		Yes	No <u>X</u>	_
Wetland Hydrology Pr	resent?	Yes	NoX_	_	ii yes, opuona	al Wetland Site	: חו:		
Remarks: (Explain alt Upland p	ernative procedures point for 034	s here or in a sep	parate report.)						
HYDROLOGY									
Wetland Hydrology I	Indicators:						<u>-</u>	<u>-</u>	
Primary Indicators (m		ired; check all the	at apply)				Secondary Indic	ators (minimum of	two required)
Surface Water (A			Water-Staine	d Leaves (B	9)			I Cracks (B6)	· · · · · ·
High Water Table	e (A2)		- Aquatic Faun	ia (B13)	•		Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits				Moss Trim	Lines (B16)	
Water Marks (B1	1)		Hydrogen Su	Ifide Odor (0	C1)		Dry-Seasor	Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhi	zospheres o	n Living Root	s (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)		Presence of I	Reduced Iro	n (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron F	Reduction in	Tilled Soils (C	26)	Stunted or	Stressed Plants (D	1)
Iron Deposits (B	5)		Thin Muck Su	urface (C7)			Geomorphi	c Position (D2)	
Inundation Visible	e on Aerial Imagery	/ (B7)	Other (Explai	in in Remark	(s)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ted Concave Surfac	ce (B8)					Microtopog	raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
F: 1101									
Field Observations:		NI- V	Donath (in the						
Surface Water Preser	_		_ · ·	· -					
Water Table Present?	_		_ ' `	· —		Matland Hed	mala my Dwaaa m42	Van	No. V
Saturation Present?	Yes _	No <u>X</u>	Depth (inch	es):		wetiand Hyd	rology Present?	Yes	NoX
(includes capillary frin	ige)								
Describe Recorded D	ata (stream gauge.	monitoring well.	aerial photos, r	orevious inst	pections), if av	ailable:			
	3	3 ,							
Remarks:									
1									

Absolute Dominant Indicator Number of Dominant Species Number of Dominant				Sampling Point:034-1U
Absolute Dominant Indicator Microer Species? Status That Are OBL, FACW, or FAC: 0 (A)				Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Stratax 6 (B)				Number of Dominant Species
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Stratax 6 (B)	Absolute	Dominant	Indicator	·
1. Acer saccharum / Sugar maple				(`,
2. Fraxinus pennsylvanica / Green ash				Total Number of Dominant
3.				
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)				(2)
That Are OBL, FACW, or FAC: 0.0 (A/B)			·	Percent of Dominant Species
Prevalence Index worksheet: Total Cover Sapling/Shrub Stratum (Plot size: 15)			· ——	•
Tevalence Index worksheet: Total X Cover				That Are OBL, FACW, OF FAC. 0.0 (A/B)
Total % Cover of: Multiply by:				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 1. Acer saccharum / Sugar maple 30		- Total Cav		
Acer saccharum / Sugar maple 30 Yes FACU FACW species 10 x 2 = 20	60	_ = Total Cove	er	
2. Crataegus / Hawthorn 15 Yes 16 Yes 17 Yes 18 Yes 19 FACU species 10 X 3 = 0 FACU species 10 X 4 = 480 UPL species 10 X 5 = 50 Column Totals: 140 (A) 550 (B) Prevalence Index = B/A = 3.93 The provided stratum (Plot size: 5) 1. Rubus allegheniensis / Allegheny blackberry 3. Yes FACU 2. Fragaria vesca / Wild strawberry, Wood strawberry 3. Potentilla argentea / Silver-leaf cinquefoil 4. Amorphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 (Explain) 4. Tree - Woody plants as in. (7.6 cm) or more in diameter at breast height (IDBH), regardless of height. 5. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 4. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation		.,	E4.011	·
FACU species 120 x 4 = 480			FACU	
4.	15	Yes		·
Column Totals: 140 (A) 550 (B) Prevalence Index = B/A = 3.93 (B) Prevalence Index = B/A = 3.94 (B) Prevalence Index = B/A = 3.93 (B) Prevalence Index = B/A = 3.93 (B) Prevalence Index = B/A = 3.93 (B) Prevalence Index = B/A = 3.94 (B) Prevalenc				
6.			<u> </u>	
### A stratum (Plot size: 5) Rubus allegheniensis / Allegheny blackberry 30				
Herb Stratum (Plot size: 5 1 - Rapid Plot Faculty 10 10 10 10 10 10 10 1				Prevalence Index = B/A = 3.93
Herb Stratum (Plot size: 5) 1. Rubus allegheniensis / Allegheny blackberry 30 Yes FACU 2. Fragaria vesca / Wild strawberry, Wood strawberry 10 Yes UPL 3. Potentilla argentea / Silver-leaf cinquefoil 10 Yes FACU 4. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 5. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 6. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 7. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 8. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 9. Sapina vesca / Wild strawberry Wood strawberry 10 Yes FACU 10 Yes FACU 11 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. Sapina vesca / Wild strawberry Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 9. Sapling/shrub - Woody plants less than 3 28 ft tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 9. Woody vines - All woody vines greater than 3.28 ft in height. 9. Woody vines - All woody vines greater than 3.28 ft in height. 9. Woody vines - All woody vines greater than 3.28 ft in height.				Hydrophytic Vegetation Indicators
Reform Stratum (Plot size: 5	45	= Total Cove	er	
1. Rubus allegheniensis / Allegheny blackberry 2. Fragaria vesca / Wild strawberry, Wood strawberry 3. Potentilla argentea / Silver-leaf cinquefoil 4 Woody Vine Stratum 10 Woody Vine Stratum 10 Woody Vine Stratum 11 Woody Vine Stratum 12 Woody Vine Stratum 13 Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 2. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 4. Woody vine Stratum (Plot size: 30) 1. Woody vine Stratum 10 Total Cover Woody Vine Stratum 11 Tree - Woody plants ses than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.				
2. Fragaria vesca / Wild strawberry, Wood strawberry 3. Potentilla argentea / Silver-leaf cinquefoil 4. 4. 5. 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	30	Yes	FACU	
3. Potentilla argentea / Silver-leaf cinquefoil 4.	10	Yes	UPL	
4 Problematic Hydrophytic Vegetation¹ (Explain) 5	10	Yes	FACU	
5.		_	-	Problematic Hydrophytic Vegetation¹ (Explain)
6.	-		· 	
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation			· ——	¹ Indicators of hydric soil and wetland hydrology must
8.			- ———	be present, unless disturbed or problematic.
9.				
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.			· ———	Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop				
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The probability of the probabilit				
Woody Vine Stratum (Plot size: 30) 1.		_		
Woody Vine Stratum (Plot size: 30) 1.		_		
1	50	_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
2				Herb - All herbaceous (non-woody) plants, regardless of
3 height. 1 0 = Total Cover				size, and woody plants less than 3.28 ft tall.
3				Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Vegetation				
Vegetation				
	0	= Total Cove	er	Hydrophytic
Present? Yes No X		_		Vegetation
				Present? Yes No X
·				
Remarks: (Explain alternative procedures here or in a separate report.)	report.)			
Remarks: (Explain alternative procedures here or in a separate r		%Cover 50 10 10 60 30 15 30 10 10 10 50 0	%Cover Species? 50 Yes 10 No	%Cover Species? Status 50 Yes FACU 10 No FACW

SOIL Sampling Point: 034-1U

Depth	iption: (Describe to the Matrix			Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 3/3	90	10YR 4/4	10		M	Silt loam	
							·	
							·	
							 -	
•				·		 -	· ·	
ype: C=Con	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mask	ed Sand Gr	ains.		²Locatio	on: PL=Pore Lining, M=Matrix.
dric Soil Ir	dicators:						Indicators f	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	/ Surface (St	8) (LRR R. I	MLRA 149E		luck (A10) (LRR K, L, MLRA 149B)
_	ipedon (A2)	•	Thin Dark Surfa	•			· —	Prairie Redox (A16) (LRR K, L, R)
Black His		•	Loamy Mucky M			,		lucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	•	Loamy Gleyed N		, ,			urface (S7) (LRR K, L)
_	Layers (A5)	•	Depleted Matrix					lue Below Surface (S8) (LRR K, L)
 Depleted	Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin Da	ark Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Ma	anganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Sandy G	eyed Matrix (S4)						Mesic S	Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Re	edox (S5)						Red Pa	arent Material (F21)
	Matrix (S6)						Very SI	hallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	.RA 149B)					Other (Explain in Remarks)
Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	ss disturbed	or problem	atic	
		The Wolland	- I yar ology maor bo pi		- diotarboa	T		
	ayer (if observed):							
Type:	d \.						Ukadala Oali Baa	
Depth (inc	:nes):						Hydric Soil Pre	esent? Yes No _X
emarks:								

Project/Site:	19020	- South Ripley		City/Cou	inty:	Chautauqua (County	Sampling Date:	07/08/2020
Applicant/Owner:			ConnectGen LLC	_	•	'	ate: New York		034-1W
Investigator(s):		JG JAM		Section.	Township, Rar	_		wn of Ripley	
Landform (hillslope, terrac	ce, etc):		Local	_	ave, convex, n		Concave	Slope	(%): 0-5
Subregion (LRR or MLRA		RR R MLRA 13			19499403	Long:	-79.759116		` '———
Soil Map Unit Name:	·		Volusia Channery				NWI classificati		
Are climatic / hydrologic c	onditions on the					(If no.	explain in Remark		
Are Vegetation						` '	cumstances" pres	,	K No
			naturally p				ain any answers in		
SUMMARY OF FINE		="	·				•	•	
Hydrophytic Vegetation					Is the Samp	·	, p	,	
Hydric Soil Present?	ir ieseiti:	Yes	X No	_	within a We		Yes X	No	
Wetland Hydrology Pre	sent?	Yes	X No			nal Wetland Site	·	034	_
vvetiand Hydrology Fre	SCIIL!		<u> </u>		ii yes, opiioi	iai Welland Sile		034	-
Remarks: (Explain alter	rnative procedu	ires here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology In	dicators:								
Primary Indicators (min		quired; check a	all that apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1			Water-Staine	ed Leaves ((B9)			l Cracks (B6)	· /
High Water Table ((A2)		Aquatic Faur	na (B13)	. ,			atterns (B10)	
Saturation (A3)			Marl Deposit					Lines (B16)	
Water Marks (B1)			Hydrogen Sı	` '	(C1)			Water Table (C2)	
Sediment Deposits			X Oxidized Rh			ts (C3)	Crayfish Bu	` ,	
Drift Deposits (B3)	` '		Presence of		_	()		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust					in Tilled Soils ((C6)		Stressed Plants (D1	
Iron Deposits (B5)			Thin Muck S			,00)		c Position (D2)	.,
Inundation Visible		erv (B7)	Other (Expla		•		Shallow Aq		
Sparsely Vegetate	-	•						raphic Relief (D4)	
		.000 (20)					FAC-Neutra		
Field Observations:									
Surface Water Present		No _	X Depth (inch						
Water Table Present?	Yes		X Depth (inch	· —					
Saturation Present?	Yes	No _	X Depth (inch	nes):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	e)								
Describe Recorded Dat	ta (stream gaud	ae. monitorina v	vell. aerial photos.	previous in	spections), if a	ıvailable:			
	.a (ooa gaas	, o,og .	ron, dona. priotos,	p. 01.000	,,				
Remarks:									

6.					Sampling Point:034-1W
National Process					Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status 1					Number of Dominant Species
Salik / Willow		Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Sabit / Willow	Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
2	1. Salix / Willow	40	Yes		Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC; 50.0 (A/B)	2. Acer rubrum / Red maple	5	No	FAC	Species Across All Strata: 4 (B)
That Are OBL, FACW, or FAC: 50.0 (A/B)	3.				
5.	4.				Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by:					That Are OBL, FACW, or FAC: 50.0 (A/B)
Prevalence Index worksheet:	^				
A5	_				Prevalence Index worksheet:
1.			= Total Cov	er	Total % Cover of: Multiply by:
1.	Sapling/Shrub Stratum (Plot size: 15)		=		OBL species 25 x 1 = 25
2. Salix / Willow 3. Fraxinus pennsylvanica / Green ash 5. No FACW 4. Separation pennsylvanica / Green ash 5. No FACW 5. Separation pennsylvanica / Green ash 6. Separ		15	Yes	FAC	FACW species 45 x 2 = 90
Section Sect					FAC species 20 x 3 = 60
4.	-			FACW	FACU species 0 x 4 = 0
5. Column Inclasis: 90 (A) 175 (B Prevalence Index = BIA = 1.94 Problematic Hydrophytic Vegetation Provide supporting Problematic Index = BIA = 1.94 Prevalence Index = BIA = 1.94 Problematic Hydrophytic Vegetation Provide supporting Problematic Index = BIA = 1.94 Problematic Hydrophytic Vegetation Provide supporting Problematic Index = BIA = 1.94 Problematic Hydrophytic Vegetation Provide supporting Problematic Index = BIA = 1.94 Problematic Hydrophytic Vegetation Index = 1.94 Prob				17.077	UPL species 0 x 5 = 0
6.	_			 	Column Totals: 90 (A) 175 (B)
The stratum (Plot size: 5 30 = Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0° 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide su	^				
Herb Stratum (Plot size: 5 1 - Stratum (Plot size: 5 2 - Dominance Test is >50%	<u> </u>			- 	
Herb Stratum (Plot size:	1		- Total Cov		Hydrophytic Vegetation Indicators:
1. Solidago gigantea / Smooth goldenrod 2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 4. Carex lurida / Shallow sedge 5. No OBL 6	Horb Chrotism (District		_ = 10tal Cov	eı	1 - Rapid Test for Hydrophytic Vegetation
2. Typha latifolia / Broadleaf cattail, Broad-leaved cattail 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 4. Carex lurida / Shallow sedge 5. No OBL 5. 6.	·	40	V	E4.0\4/	2 - Dominance Test is >50%
3. Carex vulpinoidea / Fox sedge, Brown fox sedge 4. Carex lurida / Shallow sedge 5 No OBL 5. 6. 7. 8. 9. 10. 9. 11. 12. 12. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15					X 3 - Prevalence Index ≤3.0¹
4. Carex lurida / Shallow sedge 5 No OBL 5.					4 - Morphological Adaptations (Provide supporting
4. Carex Jurida / Shallow sedge 5 No OBL 5.					
6.		5	No	OBL	
be present, unless disturbed or problematic. Definitions of Vegetation Strata	5				¹Indicators of hydric soil and wetland hydrology must
8.	-				
8	7				be present, amose distance of presisting at
9.	0				Definitions of Vegetation Strata
11	9				
11	10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
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:	11				
Woody Vine Stratum (Plot size:30) 1	12				Sapling/shrub - Woody plants less than 3 in, DBH and
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation		65	= Total Cov	er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	Woody Vine Stratum (Plot size: 30)		=		Herh - All herbaceous (non-woody) plants, regardless of
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	4				
3	2				
4. O = Total Cover Hydrophytic Vegetation	3.				
0 = Total Cover Hydrophytic Vegetation	4.		-		g
Vegetation	· ·	0	= Total Cov	er	Hydrophytic
				0.	
1100mi 100 <u>X</u> 110 <u>——</u>					
					Tresent: ICS X NO
Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate	report)			

SOIL Sampling Point: 034-1W

Depth	cription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4	10 YR 2/1	95	7.5 YR 3/4	5		PL	Loam			
4-18	10 YR 6/2	70	7.5 YR 6/4	30		М	Clay loam			
					· <u></u>					
	-				·					
	·									
	-							-		
		-			· ——			-		
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=F	ore Lining, M=M	atrix.
Hydric Soil I									ematic Hydric S	
Histosol	•		Polyvalue Belov)) (LRR K, L, ML	
Histic E _l	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LRI	
	istic (A3)		Loamy Mucky N		(LRR K, L)				at or Peat (S3) (I	LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed I					•	(17) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix						v Surface (S8) (I	· •
Deplete	d Below Dark Surface (A	411)	Redox Dark Sur				Thin	Dark Surfa	ce (S9) (LRR K	, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
Sandy C	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 144	4A, 145, 149B)
Sandy F	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	d Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
	·									
Remarks:										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqua	a County	Sampling Date: 07/09/2020
Applicant/Owner:		nnectGen LLC	·	State: New York	
Investigator(s):	Matt Spadoni & Sam Park		Township, Range:		n of Ripley
Landform (hillslope, terrace,			cave, convex, none):	Convex	
Subregion (LRR or MLRA):			19566784 Long:		
	Vo			NWI classificatio	
	ditions on the site typical for th			o, explain in Remarks	
, ,	oil, or Hydrology			Circumstances" preser	
	oil, or Hydrology			plain any answers in l	
·	· · · · · · · · · · · · · · · · · · ·			•	•
SUMMART OF FINDIN	IGS - Attach site map	snowing sampling p	oint locations, transe	ects, important i	eatures, etc.
Hydrophytic Vegetation Pr	esent? Yes		Is the Sampled Area		
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX
Wetland Hydrology Preser	nt? Yes	NoX	If yes, optional Wetland S	Site ID:	
Remarks: (Explain alterna	tive procedures here or in a se	eparate report.)			
HYDROLOGY					
Wetland Hydrology India					
	um of one required; check all t			·	tors (minimum of two required)
Surface Water (A1)	_	Water-Stained Leaves	(B9)	Surface Soil	·
High Water Table (A2	_	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)
Saturation (A3)	<u> </u>	Marl Deposits (B15)		Moss Trim Li	ines (B16)
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (E	32)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Presence of Reduced	ron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B	4)	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)	<i>-</i>	Thin Muck Surface (C7	')	Geomorphic	Position (D2)
Inundation Visible on	Aerial Imagery (B7)	Other (Explain in Rema		Shallow Aqu	
Sparsely Vegetated C	-		····· ·· /		aphic Relief (D4)
				FAC-Neutral	
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 Hy	drology Present?	Yes NoX
(includes capillary fringe)		' ` `			
(
Describe Recorded Data (stream gauge, monitoring wel	l, aerial photos, previous ir	spections), if available:		
Remarks:					
1					

VEGETATION - Use scientific names of plants.				Sampling Point: 035-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	30	Yes	FAC	Total Number of Dominant
2. Acer saccharum / Sugar maple	15	Yes	FACU	Species Across All Strata:5 (B)
3. Betula alleghaniensis / Yellow birch	10	No	FAC	
4. Prunus serotina / Black cherry	10	No	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40.0 (A/B)
6				
7				Prevalence Index worksheet:
	65	_ = Total Cov	rer	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 = 0
Fagus grandifolia / American beech	10	Yes	FACU	FACW species 5 x 2 = 10
2. Lindera benzoin / Northern spicebush	5	Yes	FACW	FAC species 40 x 3 = 120
3				FACU species 75 x 4 = 300
4		_		UPL species 0 x 5 = 0
5				Column Totals: 120 (A) 430 (B)
6				Prevalence Index = B/A = 3.58
7				Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	rer	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. <i>Maianthemum /</i> Mayflower	40	Yes	FACU	3 - Prevalence Index ≤3.0¹
2				4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4		_		Problematic Hydrophytic Vegetation (Explain)
5				1Indicators of hydric coil and watland hydrology must
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	40	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.			 	
		= Total Cov	er	Hydrophytic
	_	_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separa	te report.)			

SOIL Sampling Point: 035-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features % Loc² (inches) Color (moist) Color (moist) Type¹ Texture Remarks 2.5Y 4/4 100 0-18 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South Ripley	(City/County:	Chautauqua C	County	Sampling Date:	07/09/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	•	ate: New York	· · · -	035-1W
· · · — — — — — — — — — — — — — — — — —	Matt Spadoni & Tiffany (Section, Township, Ra			vn of Ripley	000
Landform (hillslope, terrace,			ef (concave, convex,		Concave		(%): 0-3
Subregion (LRR or MLRA):				Long:	-79.7554443		`
Soil Map Unit Name:				20119	NWI classification		PFO
Are climatic / hydrologic con				(If no	explain in Remark		10
• •	oil, or Hydrology	•		` ′	cumstances" prese	,	(No
	oil , or Hydrology				ain any answers in		<u> </u>
				•	•	•	
SUMMARY OF FINDI	NGS - Attach site map		ning point locati	ons, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation Pr	resent? Yes	X No	Is the Sam	pled Area			
Hydric Soil Present?	Yes	X No	within a W	etland?	Yes X	No	_
Wetland Hydrology Prese	nt? Yes	X No	If yes, option	onal Wetland Site	e ID:	Wetland 35	
Domarka: (Evalain alterna	tivo procedures bore or in a	apparate report \					
Remarks. (Explain alterna	tive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology India	cators:						
	um of one required; check a	ll that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)	ann or ono roquirou, onoon a	X Water-Stained I	eaves (B9)			Cracks (B6)	
High Water Table (A2	2)	Aquatic Fauna	` ,		X Drainage Pa		
Saturation (A3)	-,	Marl Deposits (I	` '		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfic	· ·			Water Table (C2)	
Sediment Deposits (I	32)		spheres on Living Ro	ots (C3)	Crayfish Bu		
Drift Deposits (B3)	52)		educed Iron (C4)	013 (03)		isible on Aerial Ima	gery (C0)
Algal Mat or Crust (B	4)		duction in Tilled Soils	(C6)		Stressed Plants (D1	
1 - ·	4)			(00)		,)
Iron Deposits (B5)	Agric Imagan (P7)	Thin Muck Surfa			X Geomorphic		
Inundation Visible on		Other (Explain i	in Remarks)		Shallow Aqu		
Sparsely vegetated t	Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	i iesi (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 Hydi	rology Present?	Yes X	No
(includes capillary fringe)			,-				
(95)							
Describe Recorded Data	(stream gauge, monitoring w	ell, aerial photos, pre	vious inspections), if	available:			
Remarks:							

/EGETATION - Use scientific names of plants.				Sampling Point:035-1W	
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 6 (A))
Tree Stratum (Plot size: 30)	%Cover	Species?	Status		
1. Acer rubrum / Red maple	60	Yes	FAC	Total Number of Dominant	
Fraxinus pennsylvanica / Green ash	25	Yes	FACW	Species Across All Strata: 6 (B))
3.				(/,	
4.				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC: 100.0 (A/	/B)
6.					
7.			·	Prevalence Index worksheet:	
···-	85	= Total Cov		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)		_ 10141 001	01	OBL species 0 $x 1 = 0$	
Fraxinus pennsylvanica / Green ash	40	Yes	FACW	FACW species 130 x 2 = 260	
Lindera benzoin / Northern spicebush	20	Yes	FACW	FAC species 100 x 3 = 300	
3			TACV	FACU species 0 x 4 = 0	
				UPL species 0 x 5 = 0	
			· ——	· — — — — — — — — — — — — — — — — — — —	(B)
^			· ——	Prevalence Index = B/A = 2.43	. ,
6					
7		T-4-1 0		Hydrophytic Vegetation Indicators:	
	60	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5		.,		X 2 - Dominance Test is >50%	
Symphyotrichum prenanthoides / Crooked-stem american-as		Yes	FAC	X 3 - Prevalence Index ≤3.0¹	
2. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	4 - Morphological Adaptations (Provide supporting	
3. Onoclea sensibilis / Sensitive fern	15	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)	
4					
5				¹ Indicators of hydric soil and wetland hydrology must	
6				be present, unless disturbed or problematic.	
7				be precent, amose distance of presisting to	
8				Definitions of Vegetation Strata	
9					
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at	t
11				breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH and	
	85	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of	
1				size, and woody plants less than 3.28 ft tall.	
2				Woody vines - All woody vines greater than 3.28 ft in	
3.				height.	
4.					
	0	= Total Cov	er	Hydrophytic	
		_		Vegetation	
				Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separate	report.)				

SOIL Sampling Point: 035-1W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10YR 2/1	100					Loam			
4-18	10YR 6/1	80	10YR 5/8	20	C	М	Loamy clay			
		. ,								
		. ,								
		·								
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=M	latrix.
Hydric Soil I									ematic Hydric S	
Histosol	•		Polyvalue Belov)) (LRR K, L, MI	
	pipedon (A2)		Thin Dark Surfa			149B)			edox (A16) (LRI	
	istic (A3)		Loamy Mucky N		(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark	Surface (S	(17) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly	alue Belov	v Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin	Dark Surfa	ce (S9) (LRR K	(, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-l	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	nont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 14	4A, 145, 149B)
Sandy F	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	d Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	ırface (S7) (LRR R, ML	-RA 149B)					Othe	r (Explain i	n Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive L	_ayer (if observed):									
Type:	• • •									
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
	· -									
Remarks:										

Project/Site:	19020	- South Ripley	C	City/County:	Chautauqua	County	Sampling Date:	07/09/2020
Applicant/Owner:		· · ·	nnectGen LLC			tate: New York	-	036-1U
Investigator(s):		MS TC		Section, Township	-		wn of Ripley	
Landform (hillslope, terra	ace, etc):			ef (concave, conv		Convex	Slope	(%): 0-5
Subregion (LRR or MLR			 Lat:			-79.665597		` '
Soil Map Unit Name:	,		Ernest silt loam			NWI classification		
Are climatic / hydrologic	conditions on th	e site typical for this		es X	No (If no	_ , explain in Remark		
Are Vegetation			•			rcumstances" prese		(No
		, or Hydrology		olematic?	(If needed, exp	lain any answers in		
SUMMARY OF FIN	_					•	•	
Hydrophytic Vegetation		Yes	No X		ampled Area	<u> </u>		
Hydric Soil Present?	on resent:	Yes			Wetland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X		ptional Wetland Si			_
· · · · · · · · · · · · · · · · · · ·				, 500, 0	puonar rrottaria or			
Remarks: (Explain alt	ternative procedu	ires here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology I	Indicators							
Primary Indicators (m		aguired: check all th	uat annly)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A		-quireu, ericek ali tir	Water-Stained L	eaves (R9)			l Cracks (B6)	wo required)
High Water Table	•		_ Aquatic Fauna (,			atterns (B10)	
Saturation (A3)	C (/ LZ)		Marl Deposits (E	•		Moss Trim I		
Water Marks (B1	1)		Hydrogen Sulfid	-			Water Table (C2)	
Sediment Depos	,		_	spheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (B			Presence of Re		110010 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•		_	duction in Tilled S	oils (C6)		Stressed Plants (D1	
Iron Deposits (B		-	Thin Muck Surfa		0.10 (00)		Position (D2)	,
Inundation Visible	•	erv (B7)	Other (Explain in	` '		Shallow Aqu		
				,			aphic Relief (D4)	
	ited Concave Sui	race (B8)				<u> </u>	. ,	
Sparsely Vegeta	ited Concave Sui	тасе (вв)				FAC-Neutra	l Test (D5)	
Sparsely Vegeta		пасе (В8)				FAC-Neutra	l Test (D5)	
Sparsely Vegeta						FAC-Neutra	I Test (D5)	
Sparsely Vegetar Field Observations: Surface Water Preser	nt? Yes	s NoX			_	FAC-Neutra	Il Test (D5)	
Field Observations: Surface Water Preser Water Table Present?	nt? Yes	S NoX S NoX	Depth (inches)):	-			
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes ? Yes Yes	S NoX S NoX	Depth (inches)):	- - - Wetland Hyd	FAC-Neutra	Yes	No <u>X</u>
Field Observations: Surface Water Preser Water Table Present?	nt? Yes ? Yes Yes	S NoX S NoX	Depth (inches)):	- - - Wetland Hyd			NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes Yes nge)	No X No X No X No X No X	Depth (inches) Depth (inches)):				No X

EGETATION - Use scientific names of plants.				Sampling Point: 036-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	Illat Ale Obl., FACW, of FAC.
	%COVEI	Species	Status	T. District
1				Total Number of Dominant
2				Species Across All Strata: 3 (B)
3				
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
S				
,		_		Prevalence Index worksheet:
·		= Total Cov		Total % Cover of: Multiply by:
O II (O) with Other time (D) to blee		10101 001	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:15)				FACW species $0 \times 2 = 0$
·				· — — — — — — — — — — — — — — — — — — —
				FAC species 0 x 3 = 0
				FACU species 100 x 4 = 400
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 400 (B)
3				Prevalence Index = B/A = 4.0
				FIEVAICHUE HIGEN - DIA
				Hydrophytic Vegetation Indicators:
	0	= Total Cov	/er	
erb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
Solidago canadensis / Canada goldenrod	70	Yes	FACU	2 - Dominance Test is >50%
				3 - Prevalence Index ≤3.01
Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil		Yes	FACU_	4 - Morphological Adaptations (Provide supporting
Trifolium pratense / Red clover	10	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
				Flobicinatio riyuropriyao vogotation. (_np.c)
-				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata
·				
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1.				breast height (DBH), regardless of height.
າ		_		
2.		Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
		_		height.
		_		neight.
				0. 4
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes NoX
emarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 036-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Loc² Color (moist) Type¹ Texture Remarks 10 YR 5/4 100 0-2 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)

⁹Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):				
Type:				
Depth (inches):	Hydric Soil Present?	Yes	No	Χ
			_	

Remarks:

Rock refusal

Project/Site:	19020 - So	outh Ripley		City/County:	Chautauqua	County	Sampling Date:	07/09/2020
Applicant/Owner:			ConnectGen LLC	, , <u> </u>	•	ate: New York		036-1W
Investigator(s):			lay	Section, Township,			wn of Ripley	
Landform (hillslope, terrace,						Concave	. ,	(%): 0-5
Subregion (LRR or MLRA):	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			`
Soil Map Unit Name:						NWI classification	-	PEM
Are climatic / hydrologic cor					No (If no,	_		LIVI
, ,	Soil, or		•	ly disturbed?	`	cumstances" prese	,	(No
			significant			ain any answers in		<u> </u>
		_				-		
SUMMARY OF FINDI	NGS - Attach	i site map			ations, transet	ts, important	reatures, etc.	
Hydrophytic Vegetation P	resent?	Yes >	< No	Is the S	ampled Area			
Hydric Soil Present?		Yes X	<no< td=""><td> within a</td><td>Wetland?</td><td>Yes X</td><td> No</td><td>=</td></no<>	within a	Wetland?	Yes X	No	=
Wetland Hydrology Prese	nt?	Yes X	< No	If yes, o	ptional Wetland Sit	e ID:	Wetland 36	
5 , (5 , 1 , 11								
Remarks: (Explain alterna	itive procedures	here or in a s	separate report.)					
HYDROLOGY								
Wetland Hydrology Indi						0 1 1 1		
Primary Indicators (minim	um of one requir	ed; check all		(D0)			ators (minimum of ty	wo requirea)
Surface Water (A1)				d Leaves (B9)		X Surface Soi	` '	
High Water Table (A	2)		Aquatic Faun			X Drainage Pa		
Saturation (A3)			Marl Deposits			Moss Trim L	` '	
Water Marks (B1)		,	· ·	Ifide Odor (C1)			Water Table (C2)	
Sediment Deposits (B2)	,		zospheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (B3)				Reduced Iron (C4)			isible on Aerial Ima	
Algal Mat or Crust (E	34)		Recent Iron F	Reduction in Tilled So	oils (C6)	Stunted or S	Stressed Plants (D1)
_ ·	,							
Iron Deposits (B5)	,		Thin Muck St			X Geomorphic	Position (D2)	
Iron Deposits (B5) Inundation Visible or		(B7)		urface (C7) in in Remarks)		X Geomorphic Shallow Aqu		
1 - ' ' '	n Aerial Imagery (Shallow Aqu		
Inundation Visible or	n Aerial Imagery (Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated	n Aerial Imagery (Shallow Aqu X Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations:	n Aerial Imagery (Concave Surface	e (B8)	Other (Explai	in in Remarks)		Shallow Aqu X Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	n Aerial Imagery (Concave Surface Yes	e (B8)	Other (Explain of the control of the	in in Remarks) es):	-	Shallow Aqu X Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	n Aerial Imagery (Concave Surface Yes Yes	No No	Other (Explain X Depth (inch X	es):	-	Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Aerial Imagery (Concave Surface Yes Yes Yes	No No	Other (Explain of the control of the	es):	- - - - Wetland Hyd	Shallow Aqu X Microtopogr	uitard (D3) aphic Relief (D4)	No
Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	Aerial Imagery (Concave Surface Yes Yes Yes	No No	Other (Explain X Depth (inch X	es):	- - - Wetland Hyd	Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Aerial Imagery (Concave Surface Yes Yes Yes	No No No No	Other (Explain X Depth (inch X	es): es): es):		Shallow Aqu X Microtopogr X FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No

VEGETATION - Use scientific names of plants.				Sampling Point:036-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 6 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	111000000000000000000000000000000000000
1.	700010.	орослос.		Total Number of Dominant
				Species Across All Strata: 6 (B)
			 	opecies Across Air Strata.
3. 4.				Persont of Deminant Species
				Percent of Dominant Species That Are ORL FACIAL as FACIAL 400.0 (A/R)
5			-	That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	_ = Total Cov	er	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Sapling/Shrub Stratum (Plot size: 15)				FACW species 60 x 2 = 120
Salix discolor / Pussy willow	10	Yes	FACW	
2				·
3.				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5		_		Column Totals: 120 (A) 180 (B)
6				Prevalence Index = B/A = 1.5
7.				
	10	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea / Reed canarygrass, Reed canary gras	50	Yes	FACW	X 2 - Dominance Test is >50%
Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattail	15	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Carex lurida / Shallow sedge	15	Yes	OBL	4 - Morphological Adaptations (Provide supporting
Scirpus atrovirens / Green bulrush	15	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
Juncus effusus / Common bog rush, Soft or lamp rush	15	Yes	OBL	
			OBL	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12			<u> </u>	Sapling/shrub - Woody plants less than 3 in. DBH and
		_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				<u> </u>
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? YesX No
				100 <u>X</u> 10
Remarks: (Explain alternative procedures here or in a separate	report.)			
	-17			

SOIL Sampling Point: 036-1W

Depth	Matrix		Redox	k Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	· <u></u>	Remarks	
0-18	10YR 3/1	80	10YR 5/8	10	С	М	Loamy clay			
0-18			5YR 4/6	10	C	PL,M	Loamy clay			
								. ,		
								. ,		
ype: C=Con	centration, D=Depletion,	, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=M	atrix.
ydric Soil In	ndicators:						Indicators	s for Probl	ematic Hydric S	oils³·
Histosol (Polyvalue Belov	v Surface (S8	8) (I RR R	MI RA 149) (LRR K, L, ML	
	ipedon (A2)		Thin Dark Surfa						edox (A16) (LRF	-
Black His			Loamy Mucky N						at or Peat (S3) (I	
	n Sulfide (A4)		Loamy Gleyed I		(=:X:X FX, L)				7) (LRR K, L)	- IXIX IX, L, IX <i>j</i>
	Layers (A5)		Depleted Matrix					-	/) (LRR R, L) / Surface (S8) (I	RR K I)
	Below Dark Surface (A	11)	X Redox Dark Sur						ce (S9) (LRR K	· •
	rk Surface (A12)	'''	Depleted Dark S						: Masses (F12)	
	ucky Mineral (S1)		Redox Depress					ū	plain Soils (F19)	
_ ′	leyed Matrix (S4)		Redox Depress	10113 (1 0)					A6) (MLRA 14 4	
	edox (S5)							Parent Mat		A, 145, 145D)
										2)
	Matrix (S6)	A 440B)							ark Surface (TF1:	2)
Dark Sur	face (S7) (LRR R, MLR	(A 149D)					Othe	i (⊏xpiaiii ii	n Remarks)	
Indicators of	hydrophytic vegetation a	nd wetlan	d hydrology must be p	resent, unles	s disturbed	l or problem	natic.			
Pontrintivo I	aver (if abasmed):									
	ayer (if observed):									
Type:							Hydric Soil E	rocont?	Voc V	No
							Hydric Soil P	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	resent?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type:							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No
Type: Depth (inc							Hydric Soil F	Present?	Yes X	No

Project/Site:		- South Ripley	/		City/Cour	nty:	Chautauqua	County	Sampling Date:	07/09/2020
Applicant/Owner:			ConnectGe	en LLC			St	ate: New York	Sampling Point:	036-2W
Investigator(s):	Matt Spa	adoni & Tiffany	/ Clay	;	Section, 7	Township, R	ange:	То	wn of Ripley	
Landform (hillslope, terrace	e, etc): Bo	owl-Shaped de	epression	Local reli	ief (conca	ive, convex,	none):	Concave	Slop	e (%): 0-5
Subregion (LRR or MLRA)		RR R MLRA 1		Lat:	42.	1862708	Long:	-79.665652	36 Datu	ım: NAD 83
Soil Map Unit Name:			Erie	silt loam				NWI classificati	on:	POW
Are climatic / hydrologic co	onditions on th	e site typical f	or this time o	of year? `	Yes>	K No	(If no	, explain in Remarl	(S.)	
Are Vegetation,	Soil	, or Hydrology	ysi	gnificantly	disturbed	l?	Are "Normal Cir	cumstances" pres	ent? Yes	X No
Are Vegetation,	Soil X	, or Hydrology	yna	aturally pro	blematic'	?	(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FIND	INGS - Atta	ach site m	ap showii	ng samp	oling po	oint locat	ions, transed	cts, important	features, etc.	
Hydrophytic Vegetation	Present?	Yes	X No			Is the San	pled Area			
Hydric Soil Present?		Yes	X No			within a W	etland?	Yes X	No	
Wetland Hydrology Pres	ent?	Yes	X No			If yes, option	onal Wetland Sit	e ID:	Wetland 36	
Remarks: (Explain alterr Soils not su	native procedu urveyed due to		a separate ı	report.)						
HYDROLOGY										
Wetland Hydrology Ind	licators:									
Primary Indicators (mini		auired: check	all that appl	v)				Secondary Indic	ators (minimum of	two required)
X Surface Water (A1)		4		er-Stained	Leaves (I	B9)			il Cracks (B6)	
X High Water Table (A				atic Fauna	•	,			atterns (B10)	
X Saturation (A3)	,			Deposits (Moss Trim		
Water Marks (B1)				ogen Sulfi		(C1)			Water Table (C2))
Sediment Deposits	(B2)			-		on Living Ro	ots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)	,			ence of Re		-	,		√isible on Aerial Ir	nagery (C9)
Algal Mat or Crust ((B4)					n Tilled Soils	(C6)		Stressed Plants (E	
Iron Deposits (B5)	,			Muck Surf			` ,	X Geomorphi	,	,
X Inundation Visible of	on Aerial Imag	ery (B7)		r (Explain	, ,			Shallow Aq		
Sparsely Vegetated	-			` '		,			raphic Relief (D4)	
, ,		, ,						X FAC-Neutra		
Field Observations:										
Surface Water Present?	Yes	x No	De	pth (inches	3).	2-24				
Water Table Present?	Yes			pth (inches	′ —	0				
Saturation Present?	Yes			pth (inches	· —	0	Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fringe		, <u>, , , , , , , , , , , , , , , , , , </u>		pur (monoc			l violana riyo		100	
(menado dapinar) iniigo										
Describe Recorded Data	a (stream gau	ge, monitoring	well, aerial	photos, pre	evious ins	spections), if	available:			
Remarks:										

/EGETATION - Use scientific names of plants.				Sampling Point: 036-	·2W
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	·	(A)
Tree Stratum (Plot size: 30)	%Cover		Status	That Are OBL, I ACW, OF I AC.	(人)
	%Cover	Species?	Status	T	
1			- ———	Total Number of Dominant	(5)
2		_		Species Across All Strata: 3	(B)
3					
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100.0	(A/B)
6.					
7.				Prevalence Index worksheet:	
	0	= Total Cov	er	Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 30 x 1 = 30	
				FACW species 25 x 2 = 50	_
1.			· ———	FAC species 0 x 3 = 0	_
2.				FACU species 0 x 4 = 0	_
3					_
4				UPL species 0 x 5 = 0	
5				Column Totals: 55 (A) 80	(B)
6.				Prevalence Index = B/A = 1.45	_
7.		_			
	0	= Total Cov		Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)			0 1	X 1 - Rapid Test for Hydrophytic Vegetation	
	45	V	ODI	X 2 - Dominance Test is >50%	
Juncus effusus / Common bog rush, Soft or lamp rush	15	Yes	OBL	X 3 - Prevalence Index ≤3.0¹	
2. Phragmites australis / Common reed	15	Yes	FACW	4 - Morphological Adaptations (Provide supportir	na
3. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattai	15	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)	.9
4. Eupatorium perfoliatum / Common boneset	10	No	FACW	1 Toble matter Try at opting the vegetation (Explain)	
5					
6.				¹Indicators of hydric soil and wetland hydrology must	
7				be present, unless disturbed or problematic.	
			· ——		
8	· 	-		Definitions of Vegetation Strata	
9			· ———		
10.	. ———			Tree - Woody plants 3 in. (7.6 cm) or more in diameter	er at
11		_		breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH ar	nd
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless	c of
1.				size, and woody plants less than 3.28 ft tall.	5 01
2.	-	-	· ——		
2.			· ——	Woody vines - All woody vines greater than 3.28 ft ir	1
3			· ———	height.	
4					
	0	_ = Total Cov	er	Hydrophytic	
				Vegetation	
				Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separate	report.)				
Emergent Vegetation is growing along the banks					

SOIL Sampling Point: 036-2W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² (inches) Color (moist) Color (moist) Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) ___ Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: No Depth (inches): **Hydric Soil Present?** Remarks: Not sampled due to water depth

Project/Site:	19020 - Sou	th Ripley	City/Co	unty:	Chautauqua C	County	Sampling Date:	07/09/2020
Applicant/Owner:			Gen LLC	·	•	te: New York		037-1U
Investigator(s):	MS			, Township, Rar			wn of Ripley	
Landform (hillslope, terrac	ce etc).	Hill	Local relief (con	· ·	-	Convex		(%): 2-5
Subregion (LRR or MLRA				2.1907014		-79.665727		` '
Soil Map Unit Name:			nest silt loam	2.1007011		NWI classification		14/12/00
Are climatic / hydrologic c				Y No.	(If no	explain in Remark		
, ,	, Soil, or F					umstances" prese	•	(No
	, Soil, or F					in any answers in		<u> </u>
		· · · · · · · · · · · · · · · · · · ·			=	•	•	
SUMMARY OF FINE		-		Joint locatio	nis, transec	is, important	reatures, etc.	
Hydrophytic Vegetation	Present?		No <u>X</u>	Is the Samp	led Area			
Hydric Soil Present?		Yes I	No X	within a We	tland?	Yes	No X	_
Wetland Hydrology Pres	sent?	Yes I	No <u>X</u>	If yes, option	nal Wetland Site	ID:		
Remarks: (Explain alter	native procedures h	ere or in a separat	e report)	ı				
i Nemarks. (Explain alter	mative procedures in	ere or iii a separa	e report.)					
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min		d: check all that a	nnlv)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1			ater-Stained Leaves	(B9)			l Cracks (B6)	
High Water Table (•		quatic Fauna (B13)	(20)			atterns (B10)	
Saturation (A3)	(· · · ·)		arl Deposits (B15)			Moss Trim L		
Water Marks (B1)			drogen Sulfide Odo	r (C1)			Water Table (C2)	
Sediment Deposits	- (R2)		kidized Rhizosphere		te (C3)	Crayfish Bu		
· ·	` '		•	-	is (C3)		/isible on Aerial Ima	2007/(CO)
Drift Deposits (B3)			esence of Reduced	. ,	CC)			
Algal Mat or Crust			ecent Iron Reduction	•	C6)		Stressed Plants (D1)
Iron Deposits (B5)		ır	nin Muck Surface (C	•		Geomorphic	Position (D2)	
I — ' ' '				1 \		01 11 4	'' L (DO)	
Inundation Visible	on Aerial Imagery (E		ther (Explain in Rem	arks)		Shallow Aqu		
Inundation Visible			her (Explain in Rem	arks)		Microtopogr	raphic Relief (D4)	
Inundation Visible	on Aerial Imagery (E		her (Explain in Rem	arks)			raphic Relief (D4)	
Inundation Visible Sparsely Vegetate	on Aerial Imagery (E		ther (Explain in Rem	arks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations:	on Aerial Imagery (E d Concave Surface ((B8)		arks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	on Aerial Imagery (Ed Concave Surface of Concave Surface Surface of Concave Surface Sur	(B8)	Depth (inches):	arks)		Microtopogr	raphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present?	on Aerial Imagery (Ed Concave Surface (Yes	No X I	Depth (inches):	arks)	Wotland Hydri	Microtopogr FAC-Neutra	raphic Relief (D4)	No. Y
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present?	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes Yes Yes Yes	No X I	Depth (inches):	arks)	Wetland Hydr	Microtopogr	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present?	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes Yes Yes Yes	No X I	Depth (inches):	arks)	Wetland Hydr	Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present?	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery (Ed Concave Surface (Yes Yes Yes e)	No X I No X I	Depth (inches): Depth (inches): Depth (inches):			Microtopogr FAC-Neutra	raphic Relief (D4)	No X

Absolute Species Status Celebratum (Plot size: 30) Absolute Species? Status Species? Status Statu	ATION - Use scientific names of plants.					Cump	ling Poir	π. υ	37-1U
Absolute Dominant Indicator Species Status Status Species Status Status Species Status Status Status Status Species Status	·				Dominance Test	worksheet:			
Absolute									
Tree Stratum (Plot size: 30 %Cover Species? Status 1. Acer saccharum / Sugar maple 20 Yes FACU FACU Species Across All Strata: 8 Specie		Absolute	Dominant	Indicator		•		Λ	(A)
1. Acer saccharum / Sugar maple 20 Yes FACU 2 Tauga canadensis / Eastern hemiock 15 Yes FACU 4. Species Across All Strata: 8 Socies Across All Strata: 8 Species	tratum (Plot size: 30)				Illat Alc ODE, I A	OVV, OI TAO.	-		_ (^)
2. Tsuga canadensis / Eastern hemlock 15	· ··				Total Number of D				
Notify a virginiana / Eastern hop-hombeam								_	
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0					Species Across Al	l Strata:		8	(B)
That Are OBL, FACW, or FAC: 0.0	rya virginiana / Eastern hop-hornbeam	10	Yes	<u>FACU</u>					
Prevalence Index worksheet: Total % Cover of: Multiply by the Stratum (Plot size: 15) Prevalence Index worksheet: Total % Cover of: Multiply by the Stratum (Plot size: 15) Prevalence Index worksheet: Total % Cover of: Multiply by the Stratum (Plot size: 15) Prevalence Index worksheet: Total % Cover of: Multiply by the Stratum (Plot size: 15) Prevalence Index end with the prevalence index end end with the prevalence index end with the prevalence index end end with the prevalence index end with the prevalence index end end with the prevalence index end end end end with the prevalence index end					Percent of Domina	ant Species			
Prevalence Index worksheet: Total % Cover of: Multiply by Sapling/Shrub Stratum (Plot size: 15) 20 Yes FACU FACU FACW species 0 x 1 = 0 N					That Are OBL, FA	CW, or FAC:		0.0	(A/B)
A							-		
A5					Prevalence Index	worksheet:			
Sapling/Shrub Stratum (Plot size:			= Total Cov	er	Total % Cove	er of:	Mı	ultiply by:	
Fagus grandifolia American beech 20 Yes FACU FACS species 0 x 2 = 0 x 3 = 0 FACS species 0 x 4 = 32 0 FACS species 0 x 5 = 0 0 0 0 0 0 0 0 0	a/Shrub Stratum (Plot size: 15)			O.	OBL species	0	x 1 =	0	
Amamelis virginiana / American witch-hazel 15 Yes FACU	· · · · · · · · · · · · · · · · · · ·	00		E4.011			_	0	
FACU species 80							_		
UPL species	namelis virginiana / American witch-hazel	15	Yes	FACU			_		
UPL species 0 x 5 = 0 Column Totals: 80 (A) 32 Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index s3.0' 4 - Morphological Adaptations (Provide sup Problematic Hydrophytic Vegetation* (Provide sup Problematic Hydrophytic Vegetat							_	320	
Column Iotals:80					UPL species	0	x 5 = _	0	
Prevalence Index = B/A = 4.0					Column Totals:	80	(A)	320	(B)
Berb Stratum (Plot size: 5 5 60 Yes 1 - Rapid Test for Hydrophytic Vegetation Properties 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide sup Problematic Hydrophytic Vegetation¹ (Explains) Problematic Hydrophytic Vegetation² (Explains) Problematic Hydrophytic Vegetation² (Explains) Problematic Hydrophytic Vegetation² (Explains) Problematic Hydrophytic Vegetation² (Provide sup Prob				-	Prevalence	Index = B/A =	` ′ –	4 0	``
35					1 Tevalence	macx b// t	-	7.0	
Section Sec			-		Hydronhytic Veg	etation Indica	tore:		
Active Composition Comp		35	= Total Cov	er				tation.	
Thelypteris noveboracensis / New york fern Podophyllum / Mayapple Solidago / Goldenrod 10 Yes 110 Yes 2 - Dominance lest is >50% 4 - Morphological Adaptations (Provide supproblematic Hydrophytic Vegetation¹ (Explains) 110 Yes 110 Yes 110 Yes 110 Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. 110 Definitions of Vegetation Strata 111	tratum (Plot size: 5)		_				_	tation	
2. Podophyllum / Mayapple 20 Yes 4 - Morphological Adaptations (Provide sup Problematic Hydrophytic Vegetation1 (Explain Solidago / Goldenrod 10 Yes 10		60	Yes				6		
3. Solidago / Goldenrod 10 Yes Problematic Hydrophytic Vegetation' (Explain Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. 3. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diable breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diable breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diable breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diable breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. Definitions of Vegetation Strata	· ·			-	3 - Prevalenc	e Index ≤3.01			
Problematic Hydrophytic Vegetation¹ (Explains of hydric soil and wetland hydrology be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. Definitions of Vegetation Strata					4 - Morpholog	gical Adaptatio	ns (Prov	ide suppo	rting
1ndicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in dia breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.									-
Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.						iyaropiiyao vo	gotation	(Explain	,
be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regarsize, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.									
be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Noody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall.					-		•		ıst
Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.			_		be present, unless	s disturbed or p	oroblema	atic.	
Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.			_						
Tree - Woody plants 3 in. (7.6 cm) or more in diabreast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:					Definitions of Ve	getation Strat	a		
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:									
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:					Tree - Woody plan	nts 3 in 76 cm	m) or mo	re in diam	eter at
Sapling/shrub - Woody plants less than 3 in. D greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:									otol at
90 = Total Cover greater than or equal to 3.28 ft (1 m) tall.						_	_		
Moody Vine Stratum (Plot size:30) Herb - All herbaceous (non-woody) plants, rega size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.			- Total Cau						and
size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.2 height.		90	_ = 10tal Cov	er					
Woody vines - All woody vines greater than 3.2 height.	Vine Stratum (Plot size: 30)				Herb - All herbace	ous (non-woo	dy) plant	ts, regardl	ess of
B height.					size, and woody p	lants less than	1 3.28 ft t	tall.	
3 height.					Woody vines - All	l woody vines	oreater t	han 3 28 t	t in
					1	i woody vinco	greater	11011 0.20	
			-	 	noignt.				
1									
0 = Total Cover Hydrophytic		0	_ = Total Cov	er					
Vegetation					Vegetation				
Present? Yes No X						\/	No	n X	

SOIL Sampling Point: ____037-1U

	ription: (Describe to th	e depth nee			or confirm	the absence	e of indicator	s.)			
Depth	Matrix			x Features			- .				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
8-0	10YR 3/2	100					Loam	Root refu	sal 8 inch		
	. <u></u>										
			-								
	·										
	·										
											
Type: C=Cor	ncentration, D=Depletion	n, RM=Redu ———	ced Matrix, MS=Mas	ked Sand Gr	ains.			ation: PL=P	ore Lining, M=	Matrix.	
Hydric Soil II	ndicators:						Indicators	for Probl	ematic Hydric	: Soils³:	
Histosol			Polyvalue Belov	w Surface (S8	3) (LRR R.	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L, I	MLRA 149B	3)
	pipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R. MLRA	(149B)		-	dox (A16) (L		
Black His			Loamy Mucky N			,			it or Peat (S3)		
	en Sulfide (A4)		Loamy Gleyed		, /			-	7) (LRR K, L)	•	,,
	d Layers (A5)		Depleted Matrix						Surface (S8)		`
	d Below Dark Surface (<i>F</i>	\11\							ce (S9) (LRR		,
	·	A 11)	Redox Dark Su							· •	. 5)
	ark Surface (A12)		Depleted Dark					-	Masses (F12		
	Mucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F1		
	Gleyed Matrix (S4)								A6) (MLRA 1	44A, 145, 1	149B)
Sandy R	Redox (S5)							Parent Mat			
Stripped	Matrix (S6)						Very	Shallow Da	rk Surface (TF	-12)	
Dark Sui	rface (S7) (LRR R, ML	RA 149B)					Other	r (Explain ir	Remarks)		
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.				
Restrictive L	ayer (if observed):										
Type:	Root										
Depth (in	ches):	8					Hydric Soil P	resent?	Yes	No	X
Remarks:											
	Root refusal 8 inch										

Project/Site:	19020 - South Ripley		City/County:	Chautaugua	County	Sampling Date:	07/09/2020
	· · ·	ConnectGen LLC	, , <u> </u>		State: New York	· · · · · -	037-1W
	Matt Spadoni & Tiffany (Section, Township			wn of Ripley	
Landform (hillslope, terrace,			elief (concave, con		Concave		(%): 3-5
Subregion (LRR or MLRA):			42.1907075				` /
Soil Map Unit Name:					NWI classificati		PFO
Are climatic / hydrologic cond	ditions on the site typical for	this time of year?	Yes X	No (If no	o, explain in Remarl		
Are Vegetation, So	· · · · · · · · · · · · · · · · · · ·	,			ircumstances" pres	•	X No
Are Vegetation, So					olain any answers ir		
SUMMARY OF FINDIN					•	•	
					oto, important	10010100, 010.	
Hydrophytic Vegetation Pro		X No		Sampled Area	V V	NI-	
Hydric Soil Present?		X No		a Wetland?	Yes X		_
Wetland Hydrology Preser	it? Yes	X No	_ If yes,	optional Wetland Si	ite ID:	Wetland 37	
	tive procedures here or in a ands on either side of the st		y have nearly identi	cal vegetation com	munities		
HYDROLOGY							
Wetland Hydrology Indic	ators:						
, ,,	ım of one required; check a	II that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)		X Water-Staine	d Leaves (B9)		X Surface So	•	
High Water Table (A2)	Aquatic Faun	` ,		X Drainage P	` '	
X Saturation (A3)	,	Marl Deposits				Lines (B16)	
X Water Marks (B1)		X Hydrogen Su			Dry-Seasor	n Water Table (C2)	
X Sediment Deposits (E	32)		zospheres on Living	g Roots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)	•	Presence of I	Reduced Iron (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4	4)	Recent Iron F	Reduction in Tilled S	Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)	•	Thin Muck Su		, ,	X Geomorphi	c Position (D2)	,
Inundation Visible on	Aerial Imagery (B7)	Other (Explai	n in Remarks)		Shallow Aq	uitard (D3)	
X Sparsely Vegetated C	Concave Surface (B8)	_			Microtopog	raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	ec).				
Water Table Present?	Yes No	X Depth (inch		-			
Saturation Present?	Yes X No	Depth (inch	· ———	— Wotland Hy	drology Present?	Voc Y	No
(includes capillary fringe)	162 <u>V</u> NO _	Deptil (illoit	es). <u>14</u>	_ Welland Hy	diology Fresent:	Yes X	NO
(includes capillary liftige)							
Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, p	revious inspections	s), if available:			
Remarks:							
Remarks.							

GETATION - Use scientific names of plants.				Samplir	.9		37-1W
				Dominance Test worksheet:			
				Number of Dominant Species			
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:		4	(A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status				
Fraxinus pennsylvanica / Green ash	25	Yes	FACW	Total Number of Dominant			
. Tsuga canadensis / Eastern hemlock	20	Yes	FACU	Species Across All Strata:		5	(B)
. Betula alleghaniensis / Yellow birch	10	No	FAC				_ ` ′
				Percent of Dominant Species			
` .				That Are OBL, FACW, or FAC:		80.0	(A/
			. ———	111017110 032,171011, 011710.		00.0	(, ,
		-	·	Prevalence Index worksheet:			
	<u></u> 55	= Total Cove		Total % Cover of:	Mul	tiply by:	
anling/Shruh Stratum (Plot size: 15)		_ = 10(a) COV	2 1		x 1 =	35	
apling/Shrub Stratum (Plot size: 15)	F	Vaa	FAC	· —	x 2 =	150	
Betula alleghaniensis / Yellow birch	5		FAC	· —	x3=	45	
•					κ4 =	80	
·					×4 = ×5 =	0	
•				· —			— ,
·		- ,			(A)	310	(
		_		Prevalence Index = B/A =		2.14	
·				Ludranhutia Vagatatian Indicata			
	5	= Total Cove	er	Hydrophytic Vegetation Indicate		4!	
lerb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic	c vegeta	ition	
. Carex aquatilis / Water sedge	35	Yes	OBL	X 2 - Dominance Test is >50%			
. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	X 3 - Prevalence Index ≤3.01			
. Osmunda cinnamomea / Cinnamon fern	10	No	FACW	4 - Morphological Adaptations			-
Onoclea sensibilis / Sensitive fern	10	No	FACW	Problematic Hydrophytic Veg	etation1	(Explain))
		_	TAOV				
				¹ Indicators of hydric soil and wetla	nd hydr	ology mu	st
			· 	be present, unless disturbed or pro	oblemat	ic.	
·							
				Definitions of Vegetation Strata			
0				Tree - Woody plants 3 in. (7.6 cm)	or more	e in diam	eter at
1		_		breast height (DBH), regardless of	f height.		
2				Sapling/shrub - Woody plants les	s than 3	in. DBH	and
	85	_ = Total Cove	er	greater than or equal to 3.28 ft (1)			
Voody Vine Stratum (Plot size:)				Herb - All herbaceous (non-wood)	v) plants	. regardle	ess of
•				size, and woody plants less than 3			
				Woody vines - All woody vines gr			t in
				height.	Catci tii	aii 5.20 i	
		_		3 3			
·	0	= Total Cove		Hydrophytic			
				Vegetation			
				Present? Yes X			

SOIL Sampling Point: 037-1W

Depth	cription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 3/1	100					Mucky loam			
6-18	10YR 3/1	100					Sandy gravelly	Sediment	deposits present	from stream
	-			_				-		
	·									
	·									
	<u> </u>									
	· ·			<u> </u>				-		
	- -							-		
										
	·									
T O. O.		- DM D					21		1 : :	4
Type: C=Col	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	sked Sand Gr	ains.			ition: PL=P	ore Lining, M=Ma	itrix.
Hydric Soil I	Indicators:						Indicators	for Proble	ematic Hydric So	oils³:
Histosol	I (A1)		Polyvalue Belov	w Surface (St	3) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, MLI	RA 149B)
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR	•
	istic (A3)		Loamy Mucky N			,			at or Peat (S3) (L	
	en Sulfide (A4)		Loamy Gleyed		(=:::::, =)				7) (LRR K, L)	, _,,
	d Layers (A5)		Depleted Matrix					-	/ Surface (S8) (L	DD K I)
	• • •	۸ 1 1 \	`							· •
	d Below Dark Surface (A	411)	Redox Dark Su						ce (S9) (LRR K,	
	ark Surface (A12)		Depleted Dark					Ü	Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	sions (F8)					plain Soils (F19) (
	Gleyed Matrix (S4)								A6) (MLRA 144)	A, 145, 149B)
	Redox (S5)							Parent Mate		
Stripped	d Matrix (S6)						Very	Shallow Da	ark Surface (TF12	2)
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Other	(Explain ir	n Remarks)	
31			hadalan anak ba				4:-			
-indicators of	f hydrophytic vegetation	and welland	nydrology must be p	resent, unies	ss disturbed	or probler	nauc.			
Restrictive L	Layer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
remarks:										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/13/2020
Applicant/Owner:		ConnectGen LLC		S	tate: New York	Sampling Point:	037-2W
Investigator(s):	Matt Spadoni & Tiffany	Clay	Section, Township	, Range:	To	wn of Ripley	
Landform (hillslope, terrace	, etc): Active channel, va	ley bottom Local r	elief (concave, conv	ex, none):	Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):	LRR R MLRA 13	39 Lat:	42.19254478	Long:	-79.668229	Datum	n: NAD 83
Soil Map Unit Name:		Chadakoin silt lo	oam		NWI classificati	on:	
Are climatic / hydrologic cor	nditions on the site typical fo	or this time of year?	Yes X	No (If no	, explain in Remarl	ks.)	
Are Vegetation, S	Soil, or Hydrology	significant	y disturbed?	Are "Normal Cir	rcumstances" pres	ent? Yes <u>></u>	K No
Are Vegetation, S	Soil, or Hydrology	naturally p	roblematic?	(If needed, exp	lain any answers ir	Remarks.)	
SUMMARY OF FINDI	NGS - Attach site ma	p showing san	npling point loc	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetation P	Present? Yes	X No	Is the S	Sampled Area			
Hydric Soil Present?	Yes	X No		a Wetland?	Yes X	No	
Wetland Hydrology Prese	ent? Yes	X No		optional Wetland Sit	te ID:	Wetland 37	
Remarks: (Explain alterna	ative procedures here or in	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indi	cators:						
	num of one required; check	all that apply)			Secondary Indic	ators (minimum of t	wo required)
X Surface Water (A1)		X Water-Staine	d Leaves (B9)			il Cracks (B6)	
X High Water Table (A	2)	Aquatic Faun	` '		X Drainage P		
X Saturation (A3)	,	Marl Deposits				Lines (B16)	
Water Marks (B1)		X Hydrogen Su				n Water Table (C2)	
X Sediment Deposits (B2)		zospheres on Living	Roots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of I	Reduced Iron (C4)		X Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (E	34)	Recent Iron F	Reduction in Tilled S	oils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck Su	urface (C7)		X Geomorphi	c Position (D2)	
Inundation Visible or	n Aerial Imagery (B7)	Other (Explai	n in Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	Concave Surface (B8)				Microtopog	raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 0-1				
Water Table Present?	Yes X No	Depth (inch	· ———	-			
Saturation Present?	Yes X No	Depth (inch	,	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)		Depti (inci)	- 1	_ Welland Hy	arology i resent.	103 <u>X</u>	
(monages supmany minge)							
Describe Recorded Data	(stream gauge, monitoring	well, aerial photos, p	previous inspections), if available:			
Remarks:							
Remarks.							

olute over 20	Dominant Species?	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
over 20	Species?	Indicator	•
over 20	Species?	Indicator	That Are OBL, FACW, or FAC: 4 (A)
20			
	- — —	Status	
	Yes	FAC	Total Number of Dominant
			Species Across All Strata: 4 (B)
	_		
			Percent of Dominant Species
		<u> </u>	That Are OBL, FACW, or FAC: 100.0 (A/B)
			That Ald OBE, Thorr, of the
	- —		Prevalence Index worksheet:
20	- Total Cov		Total % Cover of: Multiply by:
20	IUlai UUV	31	OBL species 45 x 1 = 45
E E	Voc		FACW species 105 x 2 = 210
			FAC species 20 x 3 = 60
		FACU	FACU species 5 x 4 = 20
			UPL species 0 x 5 = 0
			Column Totals: 175 (A) 335 (B)
			Prevalence Index = B/A = 1.91
			Hydronhutia Vagatatian Indicators
60	= Total Cov	er	Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
35	Yes	FACW	X 2 - Dominance Test is >50%
35	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
10			4 - Morphological Adaptations (Provide supporting
10			Problematic Hydrophytic Vegetation¹ (Explain)
5			
5	INU	FACVV	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
	<u> </u>		Sapling/shrub - Woody plants less than 3 in. DBH and
95	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
	•		Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
			neight.
^	- Total Cov		Hydrophytic
0	_ = 10tai Cove	31	
			Vegetation
			Present? Yes X No
t.)			71000iki. 100 <u>7.</u> 110
66 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55 55 50 60 60 65 55 60 60 60 60 60 60 60 60 60 60 60 60 60	### Total Cove	## Total Cover ## FACW ## FACU ## FACU ## FACU ## FACU ## FACU ## FACW ## FACW

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

(inches) Color (moist) % Type¹ Loc² Texture Remarks

Depth	Matrix		Redox	k Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 2/2	100					Mucky loam	
	-							
							<u> </u>	_
							-	
¹Type: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Ir								Problematic Hydric Soils ³ :
X Histosol	(A1)		Polyvalue Belov	v Surface (S8	3) (LRR R,I	MLRA 149	B) 2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast Prair	rie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky N					y Peat or Peat (S3) (LRR K, L, R)
X Hydrogei			Loamy Gleyed I		. , ,			ce (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix					Below Surface (S8) (LRR K, L)
	• • •	A44)						
	Below Dark Surface (ATT)	Redox Dark Sui					Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					anese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedmont F	Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Paren	t Material (F21)
	Matrix (S6)							ow Dark Surface (TF12)
		DA 440D)						
Dark Sur	face (S7) (LRR R, MI	_KA 149B)					Other (Exp	lain in Remarks)
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problen	natic.	
						I		
Restrictive La	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Preser	nt? Yes X No
								······································
Remarks:								

Project/Site:	19020 - So	uth Ripley	City/Co	unty: Cha	autauqua County	Sampling Date: 07/10/2020
Applicant/Owner:			ectGen LLC	,	State: New York	
Investigator(s):		S TC		, Township, Range:		wn of Ripley
Landform (hillslope, terrac	ce etc):	Hillslope		cave, convex, none):		1 /
Subregion (LRR or MLRA		•			Long: -79.683494	
Soil Map Unit Name:			nandaigua silt loam		NWI classification	
Are climatic / hydrologic c					(If no, explain in Remark	
, ,			significantly disturb		Iormal Circumstances" prese	
			significantly disturb naturally problemat		eded, explain any answers in	
					• •	·
		Site map sin		Joint locations,	transects, important	reatures, etc.
Hydrophytic Vegetation	Present?	Yes		Is the Sampled A		
Hydric Soil Present?		Yes	No X	within a Wetland	I? Yes	No <u>X</u>
Wetland Hydrology Pre	sent?	Yes	No X	If yes, optional We	etland Site ID:	
Remarks: (Explain alter	native procedures	here or in a sena	erate report)	1		
remarks. (Explain alter	native procedures	пого от шта зора	irate report.)			
HYDROLOGY						
Wetland Hydrology In	dicators:					
Primary Indicators (min		ed: check all that	t apply)		Secondary Indica	ators (minimum of two required)
Surface Water (A1	•		Water-Stained Leaves	(B9)		I Cracks (B6)
High Water Table (•		Aquatic Fauna (B13)			atterns (B10)
Saturation (A3)	. –,		Marl Deposits (B15)		Moss Trim I	
Water Marks (B1)			Hydrogen Sulfide Odo	r (C1)		Water Table (C2)
Sediment Deposits	s (B2)		Oxidized Rhizosphere		 -	· ·
Drift Deposits (B3)	` '		Presence of Reduced		· —	/isible on Aerial Imagery (C9)
Algal Mat or Crust			Recent Iron Reduction	` '		Stressed Plants (D1)
1 				` ,		` '
Iron Deposits (B5)			Thin Muck Surface (C	•		Position (D2)
	on Aerial Imagery (Other (Explain in Rem	arks)	Shallow Aq	
Sparsely vegetate	d Concave Surface	; (B8)				raphic Relief (D4)
					FAC-Neutra	ir lest (D5)
Field Observations:						
Surface Water Present	? Yes	No X	Depth (inches):			
Water Table Present?	Yes	No X				
Saturation Present?	Yes	No X	Depth (inches):	Wet	land Hydrology Present?	Yes NoX
(includes capillary fringe			Deptit (mones).		dana riyarology r resent.	165 146 <u>X</u>
(includes capillary ining	<u>-</u>					
Describe Recorded Dat	a (stream gauge, n	nonitoring well, a	erial photos, previous i	nspections), if availat	ble:	
	(0 0 /	9 /		, ,,		
Remarks:						

I Cover I Cover FACURES FACU	Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 40 x2 = 80 FAC species 0 x3 = 0 FACU species 110 x4 = 440 UPL species 0 x5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover FACURES FACURES FACURES FACURES	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species OBL species FACW species FAC species FAC species That Are OBL, FACW, or FAC: OBL species OBL SPECIE
I Cover I Cover FACURES FACURES FACURES FACURES	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 40 x2 = 80 FAC species 0 x3 = 0 FACU species 110 x4 = 440 UPL species 0 x5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover FACURES FACURES FACURES FACURES	Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 40 x2 = 80 FAC species 0 x3 = 0 FACU species 110 x4 = 440 UPL species 110 x4 = 440 UPL species 0 x5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover S FACURES FACURES FACURES	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
I Cover I Cover I Ses FACU FACU FACU FACU	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
I Cover I Cover I Ses FACU FACU FACU FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
I Cover I Cover S FACU S FACU	That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover S FACU S FACU	That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover S FACU S FACU	That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover I Cover SS FACU SS FACU	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	Total % Cover of: Multiply by:
I Cover SS FACU SS FACU SS FACU	Total % Cover of: Multiply by:
I Cover SS FACU SS FACU SS FACU	OBL species
I Cover SS FACU SS FACU SS FACU	FACW species 40 x 2 = 80 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	FACU species 110 x 4 = 440 UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	UPL species 0 x 5 = 0 Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover SS FACU SS FACU SS FACU	Column Totals: 150 (A) 520 (B) Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
I Cover PS FACU PS FACU PS FACU	Prevalence Index = B/A = 3.47 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
es FACU es FACU es FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
es FACU es FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
es FACU es FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
es FACU es FACU	2 - Dominance Test is >50%
es FACU es FACU	2 - Dominance Test is >50%
es FACU es FACU	•
s FACU	— I 3 - Prevalence Index ≤3 0¹
	— I 4 - Morphological Adaptations (Provide supporting
	Problematic Hydrophytic Vegetation¹ (Explain)
	FIUDICITIALIO FIYATOPHYLO VOGOLALION (EXP.S)
	Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
	<u> </u>
	Definitions of Vegetation Strata
	_
	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	breast height (DBH), regardless of height.
	Sapling/shrub - Woody plants less than 3 in. DBH and
Cover	greater than or equal to 3.28 ft (1 m) tall.
	Herb - All herbaceous (non-woody) plants, regardless of
	size, and woody plants less than 3.28 ft tall.
	Woody vines - All woody vines greater than 3.28 ft in
	height.
	_ noight
Cover	Hydrophytic
	Vegetation
	Present? Yes No X
1	Cover

SOIL Sampling Point: 038-1U

Depth	ription: (Describe to the Matrix			Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10 YR 6/4	95	10 YR 6/8	5	C	М	Clay loamy			
								-		
Гуре: C=Cor	centration, D=Depletion	n, RM=Reduc	ed Matrix, MS=Mask	ed Sand Gra	ains.		²Loca	ition: PL=P	ore Lining, M=Mat	rix.
ydric Soil li	ndicators:						Indicators	for Probl	ematic Hydric So	ils³·
Histosol			Polyvalue Below	Surface (S8	N (IRRR	MI RA 149) (LRR K, L, MLR	
	ipedon (A2)	-	Thin Dark Surfa						edox (A16) (LRR	
		=				(1430)				
Black His	stic (A3) n Sulfide (A4)	-	Loamy Mucky M		LKK N, L)			-	at or Peat (S3) (LF	.r. r., ∟, r.)
_ , ,	` '	-	Loamy Gleyed N						(7) (LRR K, L)	ND 14 1 1
	Layers (A5)	_	Depleted Matrix						v Surface (S8) (LF	
	Below Dark Surface (A	A11) _	Redox Dark Sur						ce (S9) (LRR K, L	
	rk Surface (A12)	=	Depleted Dark S					-	e Masses (F12) (L	
_	lucky Mineral (S1)	-	Redox Depressi	ons (F8)					plain Soils (F19) (I	
	leyed Matrix (S4)								A6) (MLRA 144A	, 145, 149B)
	edox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (TF12)	
Dark Sui	face (S7) (LRR R, ML	.RA 149B)					Other	(Explain i	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland l	hydrology must be p	esent unles	e dieturbed	or problem	natio			
		and wettand i	Trydrology must be pi	Cociii, unico	3 disturbed	or problem	iatio.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes	No X
temarks:										
Ciliaiks.										

Project/Site:	19020	- South Ripley		City/Cou	ntv:	Chautauqua	County	Sampling Date:	07/10/2020
Applicant/Owner:		· · ·	nectGen LLC	,			ate: New York	. •	038-1W
Investigator(s):	Matt Spa	adoni & Tiffany Clay		Section.	Township, Ra			wn of Ripley	
Landform (hillslope, ter	•				ave, convex, i		Concave		e (%): 0-5
Subregion (LRR or MLI	RA): Lf	RR R MLRA 139	Lat:	•	18577406	Long:	-79.685004	·	` '
Soil Map Unit Name:	,		Erie silt loam				NWI classification	-	PEM
Are climatic / hydrologic	c conditions on th	e site typical for this			X No	(If no.	_ explain in Remark		
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology	•	•			ain any answers in		
SUMMARY OF FII	<u> </u>	-					•	•	
		Yes X					oto, important	10010100, 0101	
Hydrophytic Vegetati Hydric Soil Present?		Yes X	No No	_	Is the Sam within a We	-	Voo V	No	
Wetland Hydrology F		Yes X	No	_		nal Wetland Site	Yes X	No Wetland 38	-
vvetiand Hydrology F	Tesent?		NO	_	ii yes, opiio	iliai welland Sil	е ір.	vvelianu 36	
Remarks: (Explain al Cow gra	Iternative procedu azing pasture	ıres here or in a sep	parate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (n		equired: check all the	at apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (rquii ou, oi look uii uik	Water-Staine	d Leaves ((B9)			l Cracks (B6)	o.ioquiiou)
High Water Tabl	` '		Aquatic Faun	,	(-)			atterns (B10)	
Saturation (A3)		·	Marl Deposits	s (B15)			Moss Trim L		
Water Marks (B	1)	·	Hydrogen Su	Ifide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Depo	sits (B2)	X	Oxidized Rhi	zospheres	on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (E	33)	<u> </u>	Presence of I	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial Im	nagery (C9)
Algal Mat or Cru	ust (B4)	_	Recent Iron F	Reduction i	in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	(1)
Iron Deposits (E	35)		Thin Muck Su	urface (C7))		Geomorphic	Position (D2)	
	ole on Aerial Imag		Other (Explai	in in Rema	ırks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Sur	rface (B8)						raphic Relief (D4)	
							FAC-Neutra	Il Test (D5)	
Field Observations:	:								
Surface Water Prese	ent? Yes	s No X	Depth (inch	es):					
Water Table Present	? Yes	No X							
Saturation Present?	Yes	No X	Depth (inch	es):		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fri	nge)		_						<u> </u>
Describe Recorded [Data (stream gauç	ge, monitoring well,	aerial photos, p	orevious in	spections), if	available:			
Remarks:									

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:30)	%Cover	Species?	Status	Illat Ale ODL, FACW, OLLAC.
ee stratum (Flot size)	/0CUVCI	эренея:	Sidius	Total Number of Deminant
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0 (A/B)
· <u></u>				
				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15)		_		OBL species 40 x 1 = 40
				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 65 x 4 = 260
				UPL species 0 x 5 = 0
				Column Totals: 105 (A) 300 (B)
				Prevalence Index = B/A = 2.86
		- · · · · · · ·		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				2 - Dominance Test is >50%
Trifolium repens / White clover	30	Yes	FACU	X 3 - Prevalence Index ≤3.0¹
Carex vulpinoidea / Fox sedge, Brown fox sedge	25	Yes	OBL	4 - Morphological Adaptations (Provide supporting
Trifolium pratense / Red clover	20	No	FACU	
Phleum pratense / Common timothy, Cultivated timothy	15	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Scirpus atrovirens / Green bulrush	10	No	OBL	
Juncus effusus / Common bog rush, Soft or lamp rush	5	No No	OBL	¹Indicators of hydric soil and wetland hydrology must
•				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
0.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2		_		Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size: 30)	-	-		Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
-				height.
			- ——	
		= Total Cov		Hydrophytic
		10(a) 00.	31	Vegetation
				vegetation
				Present? YesX No

SOIL Sampling Point: ____038-1W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 6/2	80	10YR 6/8	20	С	PL,M	CLay			
	-			<u> </u>			_			
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, M=I	Matrix.
hadria Cail I							lundi a ataua	for Drobl	amatia Hudwia	Calla3.
Hydric Soil I			Dalamaka Balan	. 0	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	MI DA 440E			ematic Hydric	
Histosol	` '		Polyvalue Belov					-) (LRR K, L, N	-
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LF	
	stic (A3)		Loamy Mucky M		LKK K, L)				at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N					-	7) (LRR K, L)	
	d Layers (A5)	141)	X Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	411)	Redox Dark Sur						ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)							Parent Mat		40)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149D)					Other	(Explain ii	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	l or problema	atic.			
			-			· I				
	ayer (if observed):									
Type:	1 \									
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 -	South Ripley	City/Co	ounty:	Chautauqua C	ounty	Sampling Date:	07/10/2020
Applicant/Owner:		Conr	nectGen LLC				Sampling Point:	039-1U
Investigator(s):		MS TC	Section	n, Township, Ran			wn of Ripley	
Landform (hillslope, terr	ace. etc):	Hillslope		ncave, convex, no		Convex		(%): 25-35
Subregion (LRR or MLR				2.18421205	Long:	-79.6764829		` '
Soil Map Unit Name:			hadakoin silt loam			NWI classification		
Are climatic / hydrologic				X No	(If no e	explain in Remark		
, ,		7.	significantly disturb			umstances" prese		. No
			naturally problemat			n any answers in		
SUMMARY OF FIN	_				•	-	•	
		-		_		s, important	ieatures, etc.	
Hydrophytic Vegetation	on Present?	Yes		Is the Samp				
Hydric Soil Present?		Yes		within a Wet			NoX	=
Wetland Hydrology Pr	resent?	Yes	NoX	If yes, option	al Wetland Site	ID:		
Remarks: (Explain alt	ternative procedur	es here or in a sep	arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	inimum of one req	uired; check all tha	at apply)		.	Secondary Indica	ators (minimum of to	wo required)
Surface Water (A	A1)		Water-Stained Leaves	s (B9)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1	1)		Hydrogen Sulfide Odd	or (C1)		Dry-Season	Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhizosphere	es on Living Root	s (C3)	Crayfish Bu	` '	
Drift Deposits (B	3)		Presence of Reduced	Iron (C4)		Saturation \	/isible on Aerial Ima	igery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reduction	n in Tilled Soils (0	C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B	5)	_	Thin Muck Surface (C	57)		Geomorphic	Position (D2)	
Inundation Visibl	le on Aerial Image	ry (B7)	Other (Explain in Rem	narks)		Shallow Aqu	uitard (D3)	
	0					Microtopoar	aphic Relief (D4)	
	ted Concave Surfa	ace (B8)					aprilo riollor (B 1)	
	-	ace (B8)				FAC-Neutra		
Sparsely Vegeta	-	ace (B8)						
Sparsely Vegeta Field Observations:	ted Concave Surfa		Double (inches)					
Sparsely Vegeta Field Observations: Surface Water Preser	nt? Yes	NoX	_ ' '					
Field Observations: Surface Water Present? Water Table Present?	nt? Yes	NoX NoX	Depth (inches):		West-red Heads	FAC-Neutra	I Test (D5)	N. V
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes Yes	NoX			Wetland Hydro			NoX
Field Observations: Surface Water Present? Water Table Present?	nt? Yes Yes	NoX NoX	Depth (inches):		Wetland Hydro	FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections) if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes Yes	No X No X No X	Depth (inches): Depth (inches):	inspections), if a		FAC-Neutra	I Test (D5)	NoX

/EGETATION - Use scientific names of plants.				Sampling Point: 039-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Betula alleghaniensis / Yellow birch	75	Yes	FAC	Total Number of Dominant
Tsuga canadensis / Eastern hemlock	<u>75</u> 25	Yes	FACU	
		165	FACO	Species Across All Strata: 6 (B)
3.		_	· 	
4			· 	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.0 (A/B)
6		_		Prevalence Index worksheet:
7				
	100	_ = Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Betula alleghaniensis / Yellow birch	20	Yes	FAC	FACW species 0 x 2 = 0
2				FAC species145 x 3 =435
3				FACU species 25 x 4 = 100
4.				UPL species 0 x 5 = 0
5.				Column Totals: <u>170</u> (A) <u>535</u> (B)
6.				Prevalence Index = B/A = 3.15
7				
<i>1</i>	20	= Total Cove		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			21	1 - Rapid Test for Hydrophytic Vegetation
Dryopteris intermedia / Evergreen wood fern	50	Yes	FAC	2 - Dominance Test is >50%
Bryoptens intermedia / Evergreen wood lent Rubus / Blackberry	<u></u>	Yes	TAC	3 - Prevalence Index ≤3.0¹
	10			4 - Morphological Adaptations (Provide supporting
Polygonum virginianum / Jumpseed	10	Yes	· 	Problematic Hydrophytic Vegetation¹ (Explain)
4			·	
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	75	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.		_	·	
3				Woody vines - All woody vines greater than 3.28 ft in height.
4.		_	· 	noight.
T		= Total Cove		Hydrophytic
		_ = 10(a) COV	5 1	Vegetation
				_
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ate report.)			
Tremarks. (Explain alternative procedures here of in a separa	ite report.)			

SOIL Sampling Point: ____039-1U

	ription: (Describe to the	he depth nee			or confirm	the absen	ce of indicators	s.)			
Depth	Matrix	0/		x Features	T 1	12	T		D		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc²	Texture	-	Remar	KS	
0-4	10 YR 3/1	100	40 VD 5/0								
4-8	10 YR 6/4	60	10 YR 5/6	40	C	M	Clay				
		· 		_	· —— ·						
		· <u> </u>			 .						
		·			· —— ·			-			
	-				· ——						
		. ——									
					· —— ·						
					· —— ·						
					· —— ·						
				_							
		. <u></u>									
'Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	rains.		²Loca	tion: PL=F	Pore Lining, N	1=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydi	ic Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L	, MLRA 149B	3)
Histic E	pipedon (A2)		Thin Dark Surfa	ice (S9) (LF	RR R, MLRA	149B)	Coast	Prairie Re	edox (A16)	LRR K, L, R))
	istic (A3)		Loamy Mucky N			,				3) (LRR K, L,	
	en Sulfide (A4)		Loamy Gleyed		. , ,			-	67) (LRR K,		. ,
	d Layers (A5)		Depleted Matrix							-, 3) (LRR K, L))
	d Below Dark Surface (A11)	Redox Dark Su						ce (S9) (LR		•
	ark Surface (A12)	,	Depleted Dark							2) (LRR K,	L. R)
	Mucky Mineral (S1)		Redox Depress							19) (MLRA 1	
	Gleyed Matrix (S4)			,						. 144A, 145, 1	
	Redox (S5)								erial (F21)	, ,	,
	d Matrix (S6)								ark Surface (TF12)	
	ırface (S7) (LRR R, ML	_RA 149B)							n Remarks)	,	
_	, , ,	,					_	V 1-	,		
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ss disturbed	or problem	atic.				
Restrictive I	_ayer (if observed):										
Type:	Layer (ii observed).										
Depth (in	ochee).						Hydric Soil P	rocont?	Yes	No	Х
Deptii (iii							Tiyunc 30ii Fi	esent:		110	
Remarks:											
	Root restriction at 8 inc	hes									

Project/Site:	19020 - South Ripley	(City/County:	Chautauqua (County	Sampling Date:	07/10/2020
Applicant/Owner:	' '	ConnectGen LLC	, , <u> </u>	•	ate: New York	-	039-1W
· · · — — — — — — — — — — — — — — — — —	Matt Spadoni & Tiffany C		Section, Township, F			vn of Ripley	
Landform (hillslope, terrace, e			ef (concave, convex		Concave		(%): 1-5
Subregion (LRR or MLRA):			42.184177				` '
Soil Map Unit Name:					NWI classification		PFO
Are climatic / hydrologic condi				O (If no	_ rtwr classification _ explain in Remark		10
, ,	l, or Hydrology	•		`	cumstances" prese	,	(No
	, or Hydrology				ain any answers in		
					-	•	
SUMMARY OF FINDING	35 - Attach Site mar			ions, transec	cts, important	reatures, etc.	
Hydrophytic Vegetation Pres	sent? Yes	X No		mpled Area			
Hydric Soil Present?	Yes	X No	within a \	Netland?	Yes X	No	_
Wetland Hydrology Present	? Yes	X No	If yes, opt	ional Wetland Site	e ID:	Wetland 39	
Domarka: (Evalain alternation	uo proceduros boro er in a	apparate report \					
Remarks: (Explain alternativ	re procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indica	tors:						
Primary Indicators (minimur		ll that apply)			Secondary Indica	ators (minimum of to	wo required)
X Surface Water (A1)		X Water-Stained	Leaves (B9)			Cracks (B6)	
X High Water Table (A2)		Aquatic Fauna	` ,		X Drainage Pa		
X Saturation (A3)		Marl Deposits (` '		Moss Trim L		
Water Marks (B1)		X Hydrogen Sulfi	•			Water Table (C2)	
X Sediment Deposits (B2) \		spheres on Living R	oots (C3)	Crayfish Bu		
Drift Deposits (B3)	•)		educed Iron (C4)	0013 (03)		isible on Aerial Ima	agony (CO)
Algal Mat or Crust (B4)	1		duction in Tilled Soil	c (C6)		stressed Plants (D1	
	1			s (CO)		•)
Iron Deposits (B5)	Agric Imagan (P7)	Thin Muck Surf			X Geomorphic		
Inundation Visible on A		Other (Explain	in Remarks)		Shallow Aqu		
Sparsely Vegetated Co	incave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	rest (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inches	s): 1				
Water Table Present?	Yes X No	Depth (inches	•				
Saturation Present?	Yes X No	Depth (inches	· 	Wetland Hvd	Irology Present?	Yes X	No
(includes capillary fringe)	100 <u>X</u> 110	Depth (inches		Welland Hya	nology i resent.	100	
(morados sapinary imigo)							
Describe Recorded Data (st	tream gauge, monitoring w	ell, aerial photos, pre	evious inspections),	f available:			
Remarks:							

/EGETATION - Use scientific names of plants.				Sampling Point: 039-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Fraxinus pennsylvanica / Green ash	20	Yes	FACW	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	10	Yes	FAC	Species Across All Strata: 4 (B)
3				
4			<u> </u>	Percent of Dominant Species
5	-	_		That Are OBL, FACW, or FAC: 100.0 (A/B)
6.			-	Prevalence Index worksheet:
7	30	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10(a) 00	Ci	OBL species 50 x 1 = 50
				FACW species 95 x 2 = 190
				FAC species 10 x 3 = 30
2	_		 -	FACU species 0 x 4 = 0
3				UPL species 0 x 5 = 0
				Column Totals: 155 (A) 270 (B)
6.				Prevalence Index = B/A = 1.74
7.				Under which Vo matation limits - to
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
Chrysosplenium americanum / American golden-saxifrage	40	Yes	OBL	X 2 - Dominance Test is >50%
2. Laportea canadensis / Canadian wood-nettle	35	Yes	FACW	X 3 - Prevalence Index ≤3.01
3. Impatiens capensis / Spotted jewelweed	20	No	FACW	4 - Morphological Adaptations (Provide supporting
4. Dryopteris carthusiana / Spinulose wood fern	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5. Scirpus cyperinus / Woolgrass	10	No	OBL	¹Indicators of hydric soil and wetland hydrology must
6. Osmunda cinnamomea / Cinnamon fern	10	No	FACW	be present, unless disturbed or problematic.
7	_	_		be present, unless disturbed of problematic.
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11	_			breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 1 1 0 1 1 (D) 1 1 00 00 00	125	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.		-	-	Woody vines - All woody vines greater than 3.28 ft in
4.				height.
T		= Total Cov	er	Hydrophytic
			01	Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 039-1W

Depth	ption: (Describe to the Matrix		Redox	k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	2.5Y 2.5/1	85	10YR 5/8	15	С	PL,M	Mucky loam			
								, <u> </u>		
_										
				- 				-		
Type: C=Cond	entration, D=Depletion,	RM=Red	uced Matrix, MS=Masl	ked Sand Gra	ins.		²Loca	tion: PL=P	ore Lining, M=Ma	trix.
ydric Soil Inc									ematic Hydric Sc	
Histosol (/	,		Polyvalue Belov				_) (LRR K, L, MLF	-
Histic Epi	pedon (A2)		Thin Dark Surfa			(149B)			dox (A16) (LRR	
Black Hist			Loamy Mucky M		LRR K, L)		5 cm	Mucky Pea	t or Peat (S3) (L	RR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (L	RR K, L)
Depleted	Below Dark Surface (A1	l1)	X Redox Dark Sur	face (F6)			Thin	Dark Surfac	ce (S9) (LRR K,	L)
Thick Dar	k Surface (A12)		Depleted Dark S	Surface (F7)			Iron-l	Manganese	Masses (F12) (LRR K, L, R)
Sandy Mu	ıcky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	nont Flood	olain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)						Mesic	Spodic (Ta	A6) (MLRA 144A	A, 145, 149B)
Sandy Re	edox (S5)						Red I	Parent Mate	erial (F21)	
	Matrix (S6)								rk Surface (TF12)
	ace (S7) (LRR R, MLR	A 149B)							Remarks)	
Indicators of h	ydrophytic vegetation a	nd wetlan	d hydrology must be p	resent, unless	s disturbed	or problem	atic.			
Restrictive La	yer (if observed):									
	,									
							Hydric Soil P	resent?	Yes X	No
Type:	hes):						,			
	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
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Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Туре:	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									
Type: Depth (incl	hes):									

Project/Site:	19020 -	- South Ripley		City/County:	Chautaugua	a County	Sampling Date:	07/13/2020
Applicant/Owner:			onnectGen LLC			State: New York		040-1U
Investigator(s):		JM TC		Section, Townshi			wn of Ripley	
Landform (hillslope, terra	ace. etc):	Ridgetop	Local re	elief (concave, cor		Convex	Slope	(%): 45
Subregion (LRR or MLR			Lat:	•		-79.664561	·	` '
Soil Map Unit Name:	′ 		koin silt loam, 25-		<u> </u>	NWI classificati	-	
Are climatic / hydrologic	conditions on the				No (If n	— o, explain in Remarl	(s.)	
Are Vegetation			•	y disturbed?		circumstances" prese	•	X No
	, Soil,			roblematic?	(If needed, ex	plain any answers in		
SUMMARY OF FIN						•	•	
Hydrophytic Vegetation		Yes	No X		Sampled Area	<u> </u>	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	mi resent:	Yes	NoX		a Wetland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X	_	optional Wetland S			_
· · · · · · · · · · · · · · · · · · ·				_ ", ", ",	- Optional Wolland			
Remarks: (Explain alt	ernative procedur	res here or in a se	eparate report.)					
HYDROLOGY								
Wetland Hydrology I	Indicators							
Primary Indicators (m		auirod: abook all t	that apply)			Socondary India	ators (minimum of t	wo required)
Surface Water (A		quireu, crieck air i		d Leaves (B9)			ators (minimum of t l Cracks (B6)	.wo required)
High Water Table	,	_	Aquatic Faun	` ,			atterns (B10)	
Saturation (A3)	, (2)	_	Marl Deposits			Moss Trim		
Water Marks (B1	1)	_		Ifide Odor (C1)			Water Table (C2)	
Sediment Depos	,	_		zospheres on Livin	a Roots (C3)	Crayfish Bu		
Drift Deposits (B		_		Reduced Iron (C4)			/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•	_		Reduction in Tilled			Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su		00110 (00)		Position (D2)	• /
	e on Aerial Image	erv (B7)		n in Remarks)		Shallow Aq		
	ted Concave Surf						raphic Relief (D4)	
		()				FAC-Neutra		
						<u> </u>		
Field Observations:								
Surface Water Preser		No _X			_			
Water Table Present?		NoX	' '	·	_			
Saturation Present?	Yes	NoX	Depth (inch	es):	Wetland Hy	drology Present?	Yes	No X
(includes capillary frin	ige)							
Describe Recorded D	ata (stream gaug	e monitoring wel	II aerial photos n	revious inspection	s) if available:			
200020 1.00020 2	ala (oli oli 11 galagi	o,og	, aona. priotos, p	. cricac inoposito	.5), a.a			
Remarks:								

t Indicator Status FAC FACW FACU Cover FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting)
Pactor Status PACU PACU PACU PACU PACU PACU PACU PACU	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
Pactor Status PACU PACU PACU PACU PACU PACU PACU PACU	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\le 3.0^{\circ}$
FACU FACU Cover FACU FACU FACU	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹
FACU FACU FACU FACU FACU	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹
FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index \leq 3.01
FACU	That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\leq 3.0^{\circ}$
FACU FACU FACU FAC	That Are OBL, FACW, or FAC: 60.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\leq 3.0^{\circ}$
Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹
Cover	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹
Cover	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0¹
Cover	OBL species 0 x 1 = 0 FACW species 30 x 2 = 60 FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\leq 3.0^{\circ}$
Cover	FACW species 30 $\times 2 = 60$ FAC species 100 $\times 3 = 300$ FACU species 35 $\times 4 = 140$ UPL species 0 $\times 5 = 0$ Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\le 3.0^{\circ}$
Cover	FAC species 100 x 3 = 300 FACU species 35 x 4 = 140 UPL species 0 x 5 = 0 Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index $\le 3.0^{\circ}$
Cover	FACU species 35 \times 4 = 140 UPL species 0 \times 5 = 0 Column Totals: 165 \times 6 \times 7 \times 8 \times 9 \times 9 \times 165 \times 9 \times 165
Cover	UPL species 0 $x = 5$ 0 0 0 0 0 0 0 0 0 0
Cover	Column Totals: 165 (A) 500 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
FAC	Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
FAC	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
FAC	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
	X 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹
	3 - Prevalence Index ≤3.0¹
	4 - MODODOGICAL AGADIATIONS (PROVIDE SUDDOGING
	Problematic Hydrophytic Vegetation¹ (Explain)
	1 Indicators of hydric call and watland hydrology much
	¹Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
	Definitions of Vegetation Strata
	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	breast height (DBH), regardless of height.
	Sapling/shrub - Woody plants less than 3 in. DBH and
Cover	greater than or equal to 3.28 ft (1 m) tall.
	Herb - All herbaceous (non-woody) plants, regardless of
	size, and woody plants less than 3.28 ft tall.
	Woody vines - All woody vines greater than 3.28 ft in
	height.
Cover	Hydrophytic
	Vegetation
	Present? Yes No X
	Cover

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox	x Features				-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	S	
0-6	10 YR 3/3	100	,								
6-18	10 YR 4/3	100									
	•										
		·									
				<u> </u>							
	-					_					
								-			
											
											
¹Type: C=Cond	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, M	=Matrix.	
Hydric Soil In	diaatara						Indicators	for Droble	matia Uvdri	a Caila3ı	
			Debarelus Delev	Cumfooo /Ci	2) // DD D I	MI DA 440			ematic Hydri		
Histosol (•		Polyvalue Belov							MLRA 149B)	
	pedon (A2)		Thin Dark Surfa			149B)				LRR K, L, R)	
Black His			Loamy Mucky N		LKK K, L)) (LRR K, L, R))
	Sulfide (A4)		Loamy Gleyed I				_		7) (LRR K, I		
	Layers (A5)		Depleted Matrix) (LRR K, L)	
	Below Dark Surface (A11)	Redox Dark Sui	, ,					e (S9) (LRF		
	k Surface (A12)		Depleted Dark S					-		2) (LRR K, L, l	
	ucky Mineral (S1)		Redox Depress	ions (F8)						19) (MLRA 149	
	eyed Matrix (S4)									144A, 145, 149	B)
Sandy Re								Parent Mate			
	Matrix (S6)								rk Surface (1	F12)	
Dark Surf	ace (S7) (LRR R, MI	LRA 149B)					Other	(Explain in	Remarks)		
	nydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
³Indicators of h		and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
³Indicators of h	nydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
³Indicators of h	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem					
³Indicators of h		and wetland	hydrology must be p	resent, unles	s disturbed	or problem	Hydric Soil P	resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³Indicators of h	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u>X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u>X</u>	_
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u>X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u>X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u>X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No <u> X</u>	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	
³ Indicators of h Restrictive La Type: Depth (inc	yer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	NoX	

Project/Site:	19020 - South Rip	lev	City/County:	Chautauqua	County	Sampling Date:	07/13/2020
Applicant/Owner:	'	•	_	•	ate: New York		040-1W
Investigator(s):	JM TC		Section, Township,			wn of Ripley	
Landform (hillslope, terrace		seen Local	relief (concave, conve		Concave		(%): 2
Subregion (LRR or MLRA)	· · ·			Long:	-79.6647832		`
Soil Map Unit Name:		Chadakoin silt loam, 25			NWI classification	-	PEM
Are climatic / hydrologic co			•	do (If no	explain in Remark		LIVI
	Soil, or Hydrol			`	cumstances" prese	,	. No
	Soil , or Hydrol				ain any answers in		
					-		
SUMMARY OF FIND				ations, transet	is, important	ieatures, etc.	
Hydrophytic Vegetation I	Present? Yes			ampled Area			
Hydric Soil Present?	Yes	X No	within a	Wetland?	Yes X	No	_
Wetland Hydrology Pres	ent? Yes	X No	If yes, or	otional Wetland Site	e ID:		
Demarks: (Evolain altern	native procedures here or	in a senarate report)					
i Nemarks. (Explain alten	lative procedures here of	iii a separate report.)					
HYDROLOGY							
Wetland Hydrology Ind	licators:						
	mum of one required; che	ck all that apply)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1)		X Water-Stain	ed Leaves (B9)			I Cracks (B6)	
High Water Table (A		Aquatic Fau	` ,			atterns (B10)	
Saturation (A3)	(L)	Marl Deposi	` '		Moss Trim L		
Water Marks (B1)			fulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		nizospheres on Living I	Poots (C3)	Crayfish Bu		
	(DZ)			100is (C3)		/isible on Aerial Ima	gon, (CO)
Drift Deposits (B3)	(D4)		f Reduced Iron (C4)	:la (CC)			
Algal Mat or Crust ((64)		Reduction in Tilled So	olis (Cb)		Stressed Plants (D1)
Iron Deposits (B5)	A : 11 (DZ)		Surface (C7)		X Geomorphic		
	on Aerial Imagery (B7)	Other (Expla	ain in Remarks)		Shallow Aqu		
Sparsely vegetated	I Concave Surface (B8)					aphic Relief (D4)	
					FAC-Neutra	l lest (D5)	
Field Observations:							
Field Observations: Surface Water Present?	Yes N	o X Denth (inc	hes):				
Surface Water Present?		lo X Depth (inc					
Surface Water Present? Water Table Present?	Yes N	lo X Depth (inc	hes):	. Wotland Hyd	Irology Procent?	Vas V	No
Surface Water Present? Water Table Present? Saturation Present?	Yes N YesX N		hes):	Wetland Hyd	rology Present?	Yes X	No
Surface Water Present? Water Table Present?	Yes N YesX N	lo X Depth (inc	hes):	Wetland Hyd	rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes N YesX N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes N YesX _ N	Depth (inc	hes):		rology Present?	Yes X	No

EGETATION - Use scientific names of plants.				Sampling Point:040-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer saccharum / Sugar maple	15	Yes	FACU	Total Number of Dominant
2.		-		Species Across All Strata: 5 (B)
				(2)
Ţ- 				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				·
			<u> </u>	That Are OBL, FACW, or FAC: 60.0 (A/B)
6			_ (Prevalence Index worksheet:
7				
	15	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Acer saccharum / Sugar maple	10	Yes	FACU	FACW species 75 x 2 = 150
2				FAC species 30 x 3 = 90
3.				FACU species 45 x 4 = 180
4.				UPL species 0 x 5 = 0
			- · · · · · · · · · · · · · · · · · · ·	Column Totals: 150 (A) 420 (B)
^				Prevalence Index = B/A = 2.8
6			_ (Trovalence index 2/70
7				Hydrophytic Vegetation Indicators:
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	50	Yes	FACW	
2. Dryopteris intermedia / Evergreen wood fern	30	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
3. Onoclea sensibilis / Sensitive fern	25	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Tiarella cordifolia / Heart-leaf foamflower	20	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5.			17100	
			<u> </u>	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7			_ (
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				
		= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Diet aire) 20	125	_ = 10(a) C0V	Ci	
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1			<u> </u>	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3			<u> </u>	height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? YesX No

SOIL Sampling Point: 040-1W

Depth	iption: (Describe to the Matrix			Features				,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remar	ks
0-24	5 GY 4/1	60	7.5 YR 3/4	40	C	М	Sandy		
		 -		· 				 	
Type: C=Cor	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ed Sand Gra	ains.		²Loca	ation: PL=Pore Lining, N	∕I=Matrix.
Hydric Soil II	ndicators:						Indicator	s for Problematic Hydi	ric Soils³:
Histosol			Polyvalue Below	Surface (S8) (LRR R.	MLRA 149E		Muck (A10) (LRR K, L	
	ipedon (A2)	-	Thin Dark Surface					t Prairie Redox (A16)	
Black His		=	Loamy Mucky M			1400)		Mucky Peat or Peat (S	
	n Sulfide (A4)	-	Loamy Gleyed N		IX, L)			Surface (S7) (LRR K,	
	Layers (A5)	-	Depleted Matrix					value Below Surface (St	
	Below Dark Surface (A	\11\	Redox Dark Sur					Dark Surface (S9) (LR	
	·	· · · · · · · · · · · · · · · · · · ·	Depleted Dark S					Manganese Masses (F1	
	rk Surface (A12)	-	 -					•	
	ucky Mineral (S1)	-	Redox Depressi	ons (F8)				mont Floodplain Soils (F	
	leyed Matrix (S4)							Spodic (TA6) (MLRA	144A, 145, 149B)
	edox (S5)							Parent Material (F21)	TE40)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Sui	face (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain in Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent unles	s disturbed	or problem	atic		
			, a. e. egy aet 2e p.			J. p. 52.5			
Restrictive L	ayer (if observed):								
Type:			<u></u>						
Depth (in	ches):						Hydric Soil F	resent? Yes	K No
Remarks:									
Nemarks.									

Project/Site:	19020 - South	n Ripley	City/County:	Chautauqua (County	Sampling Date:	07/13/2020
Applicant/Owner:				•	ate: New York		041-1U
Investigator(s):	JM T		Section, Townsh			vn of Ripley	
Landform (hillslope, terrac			al relief (concave, co		Convex		(%): 40
Subregion (LRR or MLRA)			42.194542				,
Soil Map Unit Name:				<u></u>	NWI classification		10.00
Are climatic / hydrologic co				No (If no,	_		
, ,		drologysignification		`	cumstances" prese	•	No
		drologysignification			ain any answers in		NO
					•	•	
SUMMARY OF FIND			ampling point is	ocations, transec	is, important	eatures, etc.	
Hydrophytic Vegetation	Present?			e Sampled Area			
Hydric Soil Present?		Yes No>	<u>withi</u>	in a Wetland?	Yes	No X	-
Wetland Hydrology Pres	sent?	Yes No>	K If yes	s, optional Wetland Site	e ID:		
Demarks: (Evolain alter	native procedures her	re or in a separate report	\				
i Nemarks. (Explain alten	native procedures nei	re or in a separate report	•)				
HYDROLOGY							
Wetland Hydrology Inc	dicators:						
Primary Indicators (mini		· check all that apply)			Secondary Indica	tors (minimum of tw	vo required)
Surface Water (A1)			ined Leaves (B9)			Cracks (B6)	, o , o qu., o u ,
High Water Table (•		auna (B13)		Drainage Pa		
Saturation (A3)	, (L)	Marl Depo			Moss Trim L		
Water Marks (B1)			Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		Rhizospheres on Livi	ing Poots (C3)	Crayfish Bu		
	` '		•	• •			aon. (CO)
Drift Deposits (B3)			of Reduced Iron (C4	•		isible on Aerial Ima	
Algal Mat or Crust	(B4)		n Reduction in Tilled	1 Solis (Co)		stressed Plants (D1)
Iron Deposits (B5)	A : 11 (D=		Surface (C7)			Position (D2)	
	on Aerial Imagery (B7		olain in Remarks)		Shallow Aqu		
Sparsely vegetated	d Concave Surface (E	38)				aphic Relief (D4)	
					FAC-Neutra	lest (D5)	
Field Observations:		No X Depth (ir	iches).				
Field Observations:	yes Yes		-				
Surface Water Present?	-						
Surface Water Present? Water Table Present?	Yes	No X Depth (ir	· —	Wotland Hyd	rology Procent?	Voc	No Y
Surface Water Present? Water Table Present? Saturation Present?	Yes		· —	Wetland Hyd	rology Present?	Yes	No X
Surface Water Present? Water Table Present?	Yes	No X Depth (ir	· —	Wetland Hyd	rology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (ir	nches):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (ir No X Depth (ir	nches):		rology Present?	Yes	No X

			Sampling Point: 041-1U
			Dominance Test worksheet:
			Number of Dominant Species
Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
%Cover	Species?	Status	111at746 OBE,171OW, 01 171O (71)
50			Total Number of Deminant
	Yes Yes	FACU	Total Number of Dominant
40	169	FACO	Species Across All Strata: 7 (B)
		_	2 1 12 1 10
			Percent of Dominant Species
		- (That Are OBL, FACW, or FAC: 0.0 (A/B)
			Prevalence Index worksheet:
		-	Total % Cover of: Multiply by:
95	_ = Total Cov	er	OBL species 0 x 1 = 0
15	Yes	FACU	
10	Yes	FACU	FAC species 0 x 3 = 0
		(FACU species 185 x 4 = 740
			UPL species 0 x 5 = 0
			Column Totals: <u>185</u> (A) <u>740</u> (B)
			Prevalence Index = B/A = 4.0
		<u> </u>	
25	= Total Cov	er	Hydrophytic Vegetation Indicators:
		OI .	1 - Rapid Test for Hydrophytic Vegetation
50	Yes	FACII	2 - Dominance Test is >50%
		1700	3 - Prevalence Index ≤3.0¹
		EACH	4 - Morphological Adaptations (Provide supporting
15		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			,
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
		<u> </u>	Sapling/shrub - Woody plants less than 3 in. DBH and
90	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
	-		Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
	-		
	-		Woody vines - All woody vines greater than 3.28 ft in height.
	-		neight.
	- Total Cov		Hydrophytic
	_ = 10(a) COV	Ci	Vegetation
			Present? Yes No _X
report.)			Present? Yes No X
	95 15 10 25 50 25 15 90	95 = Total Cov 15	95 = Total Cover 15

SOIL Sampling Point: 041-1U

Depth	ription: (Describe to th Matrix	<u> </u>		x Features			-,				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-15	10 YR 3/2	100					Loam				
15-18	10 YR 5/4	100					Loam				
						-					
	-										
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Locatio	n: PL=Pc	ore Lining, N	1=Matrix.	
lydric Soil I	ndicatore:						Indicators fo	r Proble	matic Hydi	ric Saile ³ :	
-			Dobavoluo Polo	v Surface (SS) / DD D MI	DA 140E			-		OB)
Histosol	• •		Polyvalue Belov						(LRR K, L		-
	pipedon (A2)		Thin Dark Surfa			496)			dox (A16)		
	istic (A3)		Loamy Mucky N		LKK N, L)				t or Peat (S		, L, K)
	en Sulfide (A4)		Loamy Gleyed						7) (LRR K,	-	
	d Layers (A5)	\44\	Depleted Matrix						Surface (St		, L)
	d Below Dark Surface (A	A11)	Redox Dark Su						e (S9) (LR		K I D)
	ark Surface (A12)		Depleted Dark					•	Masses (F1	, .	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F		
	Gleyed Matrix (S4)								46) (MLRA	144A, 145), 149B)
	Redox (S5)								rial (F21)	TE40)	
	Matrix (S6)	DA 440D)							rk Surface (1112)	
Dark Su	ırface (S7) (LRR R, ML	.KA 149B)					Other (E	xpiain in	Remarks)		
³Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	s disturbed or	· problema	atic.				
			, 0, 1			·					
	_ayer (if observed):										
Type:	achae):						Hudria Cail Bras	ant?	Voo	No	~
Depth (in	icnes):						Hydric Soil Pres	sent?	Yes	NO	<u> </u>
Remarks:											

Project/Site:	19020 - South	Ripley	City/County:	Chautauqua (County	Sampling Date:	07/13/2020
Applicant/Owner:		<u> </u>		•	ate: New York	· · · -	041-1W
Investigator(s):	JM TO		Section, Township			wn of Ripley	
Landform (hillslope, terrae			al relief (concave, conv		Convex		(%): 2
Subregion (LRR or MLRA	· · · —		42.19459095		-79.667336 ⁻		` '———
Soil Map Unit Name:					NWI classification		EM
Are climatic / hydrologic o		•	•	No (If no,	_		LIVI
, ,	, Soil, or Hyd				cumstances" prese	,	No
	, Soil, or Hyd				ain any answers in		
					•	·	
SUMMARY OF FINE	JINGS - Attach Si			ations, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation	Present? Y	res X No		ampled Area			
Hydric Soil Present?	Y	res X No	within a	Wetland?	Yes X	No	-
Wetland Hydrology Pre	esent? Y	res <u>X</u> No	If yes, o	ptional Wetland Site	e ID:	Wetland 41	
Remarks: (Explain alter	rnativo proceduros boro	o or in a congrato ropor	+ \				
Remarks. (Explain alle	mative procedures here	e oi iii a separate repoi	ι.)				
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min		check all that apply)			Secondary Indica	ators (minimum of tw	vo required)
X Surface Water (A1			ained Leaves (B9)		X Surface Soi		
X High Water Table	•		auna (B13)		X Drainage Pa	` '	
X Saturation (A3)	(-)		osits (B15)		Moss Trim L		
Water Marks (B1)			Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	s (B2)		Rhizospheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (B3)	` '		of Reduced Iron (C4)	. 10010 (00)		/isible on Aerial Ima	gery (C9)
Algal Mat or Crust			on Reduction in Tilled S	nils (C6)		Stressed Plants (D1	
Iron Deposits (B5)			k Surface (C7)	5113 (50)	X Geomorphic	•	,
1 - ' '	on Aerial Imagery (B7)		plain in Remarks)		Shallow Aqu		
			piaiii iii ixemarks)			aphic Relief (D4)	
		0)			X FAC-Neutra		
Sparsely vegetate	ed Concave Surface (B8						
Sparsely vegetate	ed Collicave Surface (Bo				X TAC-Neutra		
Sparsely vegetate	ed Coricave Surface (Bo				X TAC-Neutra		
		No Depth (i	nches): 0.5		X TAC-Neutra		
Field Observations:		' `		_	A TAC-Neutra		
Field Observations: Surface Water Present Water Table Present?	? Yes X	No Depth (i	nches): 5	- - - Wetland Hvd			No
Field Observations: Surface Water Present Water Table Present? Saturation Present?	? Yes X Yes X Yes	No Depth (i	nches): 5	- - - Wetland Hyd	rology Present?	Yes X	No
Field Observations: Surface Water Present Water Table Present?	? Yes X Yes X Yes	No Depth (i	nches): 5	- - - Wetland Hyd			No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes X Yes X Yes	No X Depth (i	nches): 5				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes X Yes X Yes	No X Depth (i	nches): 5 nches):				No

VEGETATION - Use scientific names of plants.				Sampling Point:041-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
<u>Tree Stratum</u> (Plot size:30) 1 2	%Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 4 (B)
3. 4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (A/B)
6		= Total Cov	rer	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15) 1. Lindera benzoin / Northern spicebush 2.	25	Yes	FACW	OBL species 0 x 1 = 0 FACW species 75 x 2 = 150 FAC species 10 x 3 = 30
3				FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 85 (A) 180 (B) Prevalence Index = B/A = 2.12
6		= Total Cov		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 1. Impatiens capensis / Spotted jewelweed 2. Dryopteris intermedia / Evergreen wood fern		Yes Yes	FACW FAC	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
3. Onoclea / Sensitive fern4.	10	Yes		4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. 9.				Definitions of Vegetation Strata
10		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:30)	70	_		greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	rer	Hydrophytic Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	ате героп.)			

 SOIL
 Sampling Point: ___041-1W

Color (moist)	Depth	ription: (Describe to t Matrix			x Features	5. 50mm	003611		,		
2-8 2.5 Y 5/1 60 7.5 YR 3/4 40 C M Loam 8-18 10 YR 2/1 95 7.5 YR 4/6 5 C M Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Fluction: PL=Pore Lining, M=Matrix. Flydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R,MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydroge Sulfide (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) X Depleted Matrix (F3) Depleted Below Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S6) Redox Piedmont Floodplain Soils (F19) (MLRA 144B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Redox Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Redox Depresent, unless disturbed or problematic. Restrictive Layer (if observed): Type:	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Location: PL=Pore Lining, M=Matrix.* **Indicators for Problematic Hydric Soils*: **Histoso (A1)	0-2	10 YR 2/1	100								
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. *Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) (LRR K, L, MLRA 149B) (LRR K, L) (LRR K, L) (LRR K, L, R) (LRR K, L) (LRR K, L, R) (LRR K, L) (L	2-8	2.5 Y 5/1	60	7.5 YR 3/4	40	C	M	Loam			
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)	8-18	10 YR 2/1	95	7.5 YR 4/6	5	С	М	Loam			
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)											
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)									·		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)									·		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		-							·		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		-							·		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		-							·		
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		·									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		<u> </u>									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)		<u> </u>									
Histosol (A1)	Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=Por	re Lining, M=Matrix	
Histosol (A1)	Hydric Soil I	ndicators:						Indicator	s for Probler	natic Hydric Soils	3:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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				Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 1491			-	
Black Histic (A3)										•	-
Hydrogen Sulfide (A4)											
Stratified Layers (A5)						,, _ /					, -, -,
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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											K. L)
Thick Dark Surface (A12)		• • •	(A11)								-, -,
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			, , , , ,								RKIR)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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									•	, , ,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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		, ,		redox bepress	10110 (1 0)						
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators 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		• • • •								· ·	140, 1400)
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No											
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No			I RΔ 149R)								
Restrictive Layer (if observed): Type:		made (or) (Errich, in	LICA 140D)						i (Explain iii i	(Ciliano)	
Type:	3Indicators of	hydrophytic vegetation	n and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Type:	Dootrictive I	aver (if absorved):									
Depth (inches): Hydric Soil Present? Yes X No		_ayer (if observed):									
		ochoc):						Hydria Sail E	Procent?	Voc. V N	lo
Remarks:	Deptii (ii			<u></u>				nyuric Soil F	resentr	res <u> </u>	
	Remarks:										

Project/Site:	19020 - 5	South Ripley	City/Co	ounty:	Chautauqua C	County	Sampling Date:	07/13/2020
Applicant/Owner:			nectGen LLC	, <u> </u>	•	ite: New York		042-1U
Investigator(s):		JM TC		n, Township, Rai			vn of Ripley	
Landform (hillslope, terrac	ce etc).	Flat	Local relief (cor			None		(%): 0-5
Subregion (LRR or MLRA				2.19424315	Long:			` '
Soil Map Unit Name:			silt loam, 3-8 % slopes		Long	NWI classification		1. 10.15.00
Are climatic / hydrologic c					(If no	explain in Remark		
			significantly disturb			cumstances" prese		(No
			significantly disturb naturally problemat			in any answers in		<u> </u>
· · · · · · · · · · · · · · · · · · ·	·				· · · · · ·	-	•	
SUMMARY OF FINE		in Site map Si		point location	ons, transec	ts, important	leatures, etc.	
Hydrophytic Vegetation	Present?	Yes		Is the Sam	oled Area			
Hydric Soil Present?		Yes	NoX	within a We	etland?	Yes	NoX	_
Wetland Hydrology Pre	sent?	Yes	NoX	If yes, option	nal Wetland Site	: ID:		
Remarks: (Explain alter	rnative procedure	s here or in a sen	arate report)					
remarks. (Explain alter	native procedure.	3 Here of in a sep	arate report.)					
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min		uired: check all tha	at apply)			Secondary Indica	itors (minimum of t	wo required)
Surface Water (A1			Water-Stained Leaves	s (B9)			Cracks (B6)	
High Water Table	•		Aquatic Fauna (B13)	- ()			atterns (B10)	
Saturation (A3)	,		Marl Deposits (B15)			Moss Trim L		
Water Marks (B1)			Hydrogen Sulfide Odd	or (C1)			Water Table (C2)	
Sediment Deposits	s (B2)		Oxidized Rhizosphere		ots (C3)	Crayfish Bu		
Drift Deposits (B3)	` '	_	Presence of Reduced	-	no (00)		isible on Aerial Ima	agery (C9)
Algal Mat or Crust			Recent Iron Reduction	` ,	(C6)		Stressed Plants (D1	
Iron Deposits (B5)			Thin Muck Surface (C		(00)		Position (D2)	,
Inundation Visible			Other (Explain in Rem	•		Shallow Aqu		
		· · · —	Other (Explain in Ren	iaiks)				
Sparsely Vegetate	u Concave Suna	Le (B0)				FAC-Neutra	aphic Relief (D4)	
						FAC-Neulla	r lest (D3)	
Field Observations:								
Surface Water Present	? Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X		,				
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hydi	ology Present?	Yes	No X
(includes capillary fringe	_				Wolland Hyai	ology i rocolici		<u> </u>
(morages capillary imig								
Describe Recorded Dat	ta (stream gauge,	, monitoring well,	aerial photos, previous	inspections), if a	available:			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:042-1U
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Fraxinus americana / White ash	40	Yes	FACU	Total Number of Dominant
2. Malus / Apple	35	Yes		Species Across All Strata: 10 (B)
3. Acer rubrum / Red maple	30	Yes	FAC	(B)
Populus tremuloides / Quaking aspen	20	Yes	FACU	Percent of Dominant Species
E			1700	·
				That Are OBL, FACW, or FAC: 30.0 (A/B)
6.	_	_		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	125	_ = Total Cov	er	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Sapling/Shrub Stratum (Plot size: 15)				· — — — —
1. Fraxinus americana / White ash	15	Yes	FACU	·
Lonicera morrowii / Morrow's honeysuckle	15	Yes	FACU	FAC species 30 x 3 = 90
3				FACU species 90 x 4 = 360
4				UPL species 10 x 5 = 50
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 3.6
7.				
	30	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5		_		1 - Rapid Test for Hydrophytic Vegetation
1. Solidago / Goldenrod	70	Yes		2 - Dominance Test is >50%
Geum laciniatum / Rough avens	10	Yes	FACW	3 - Prevalence Index ≤3.0¹
Fragaria vesca / Wild strawberry, Wood strawberry	10	Yes	UPL	4 - Morphological Adaptations (Provide supporting
	10			Problematic Hydrophytic Vegetation¹ (Explain)
4. Lysimachia nummularia / Moneywort, Creeping-jenny		Yes	FACW	
5.				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.		_		
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				ŭ
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No
				100
Remarks: (Explain alternative procedures here or in a separat	te report.)			
	,			

SOIL Sampling Point: 042-1U

Depth	ription: (Describe to the Matrix	ne aeptn nee		i e indicator k Features	or confirm	the absen	ce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 2/2	100			· <u> </u>		Silt loam	
12-18	10 YR 6/3	70	7.5 YR 4/4	30	С	M	Silt loam	
		· .						
		· .						
		· .						
		· .						
¹Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ked Sand Gr	rains.		²Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil II	ndicators:						Indicators fo	r Problematic Hydric Soils³:
Histosol			Polyvalue Below	v Surface (S	8) (LRR R .I	MLRA 149I		ick (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Surfa	•			· —	rairie Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucky M			1430)		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N		(LIXIX IX, L)			face (S7) (LRR K, L)
	I Layers (A5)		Depleted Matrix					e Below Surface (S8) (LRR K, L)
	l Below Dark Surface (/	Δ11\	Redox Dark Sur					k Surface (S9) (LRR K, L)
	rk Surface (A12)	A11)	Depleted Dark S					nganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depressi					nt Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depressi	10113 (1 0)				podic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							ent Material (F21)
	Matrix (S6)							allow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149B)						xplain in Remarks)
	(2,7) (2,11,11,11,11,11,11,11,11,11,11,11,11,11	,					001 (2	Apidin in recinance,
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	ss disturbed	or problem	atic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes NoX
Remarks:								
rtomanto.								

Project/Site:	19020 -	- South Ripley		City/Coun	itv:	Chautauqua (County	Sampling Date:	07/13/2020
Applicant/Owner:			nnectGen LLC	,·		•	ate: New York		043-1W
Investigator(s):		JM TC		Section, T	Township, Ran			wn of Ripley	
Landform (hillslope, ter	race. etc):		Local r		ive, convex, no		None		e (%): 0-5
Subregion (LRR or MLF			Lat:	•	9432539	Long:	-79.659578		` '
Soil Map Unit Name:	, 		e silt loam, 3-8%				NWI classification		PEM
Are climatic / hydrologic	c conditions on the				(No	(If no,	– explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significant	ly disturbed	? A	re "Normal Cire	cumstances" prese	ent? Yes	X No
	, Soil,	·				needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI						•	-	•	
Hydrophytic Vegetati		Yes X			Is the Samp				
Hydric Soil Present?		Yes X	No No	-	within a Wet		Yes X	No	
Wetland Hydrology P		Yes X	No	_			e ID:	Wetland 43	_
- Wettaria Frydrology F	TCGCTT:	100 <u>X</u>		_	ii yes, option	ui Welland Oll		VVCttaria 40	
Remarks: (Explain al	iternative procedur	res here or in a se	parate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
Primary Indicators (m		auirod: abook all th	act apply)				Cocondary India	ators (minimum of	two required)
Surface Water (quireu, crieck air ii	Water-Staine	d Leaves (F	30)			ators (minimum of I Cracks (B6)	two required)
High Water Tabl	` '	_	Aquatic Faun	•	39)		X Drainage Pa		
Saturation (A3)		_	Marl Deposits	, ,			Moss Trim I		
Water Marks (B		_	Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depos	,	_			on Living Root	s (C3)	Crayfish Bu	, ,	
Drift Deposits (E	` '	_	Presence of I	-	-	3 (00)		/isible on Aerial Im	nagery (C9)
Algal Mat or Cru	•	_	_		n Tilled Soils (0	26)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su			30)	X Geomorphic	•	.,
	ole on Aerial Image	erv (B7)	Other (Explai				Shallow Aqu		
	ated Concave Surf	• • • • • • • • • • • • • • • • • • • •	(-,			raphic Relief (D4)	
_ ' '		,					FAC-Neutra		
Field Observations:									
Surface Water Prese		NoX	_ ' `	· —					
Water Table Present		NoX	_ ' `					., .,	
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fri	nge)								
Describe Recorded [Data (stream gaug	ie. monitorina well	. aerial photos. r	orevious ins	pections), if a	/ailable:			
	(gg	-,	,, р		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Remarks:									

/EGETATION - Use scientific names of plants.				Sampling Point: 043-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	, , ,
1. Salix / Willow	10	Yes		Total Number of Dominant
2. Prunus / Plum	10	Yes		Species Across All Strata: 8 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 37.5 (A/B)
6				
7.			<u> </u>	Prevalence Index worksheet:
·		= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10tai 00v	Ci	OBL species 15 x 1 = 15
Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle	20	Voo	EACH	FACW species 120 x 2 = 240
		Yes	FACU	FAC species 0 x 3 = 0
2. Polygonum cuspidatum / Japanese knotweed	20	Yes		FACU species 20 x 4 = 80
3.				UPL species 0 x 5 = 0
4		_		
5				
6		_		Prevalence Index = B/A = 2.16
7				Hydrophytic Vegetation Indicators:
	40	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Lysimachia nummularia / Moneywort, Creeping-jenny	75	Yes	FACW	
2. Onoclea sensibilis / Sensitive fern	45	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Solidago / Goldenrod	15	Yes		4 - Morphological Adaptations (Provide supporting
4. Scirpus cyperinus / Woolgrass	15	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7. 8.				D. C. W
0				Definitions of Vegetation Strata
10.	<u> </u>			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	150	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	te report.)			

SOIL Sampling Point: ____043-1W

Glockes Color (moist) % Color (moist) % Type Loc Tockure Remarks	Depth	ription: (Describe to th Matrix			x Features				- /		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand, Reduck (A10) (LRR K, L, MRA 144B) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand, Reduck (A10) (LRR K, L, R) Type: C=Concentration (R=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration (R=Reduced Matrix, MS=Masked Sand Reduced Matrix, MS=Masked Sand, Reduck (A10) (LRR K, L, R) Type: C=Concentration (R=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration (R=Reduced Matrix, MS=Masked Sand Reduced Matrix, MS=Masked Sand, Reduck (A10) (LRR K, L, R) Type: Depth (Inches): Hydric Soil Present? Yes X No	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Location: PL=Pore Lining, M=Matrix.* **Indicators: Histosol (A1)	0-5	10 YR 2/1	100					Loam			
Hydric Soil Indicators: Histosol (A1)	5-18	2.5 Y 4/2	70	10 YR 5/6	30	C	M	Loam			
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)					_						
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Histosol (A1)	Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	Pore Lining, M=N	/latrix.
Histosol (A1)		ndicators:						Indicators	for Probl	ematic Hydric	Soils ³ :
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Matrix (F2) Depleted Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Find Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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				Polyvalue Belov	v Surface (S	8) (LRR R .I	MLRA 149E			-	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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		` '									-
Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) LRR K, L) Hydric Soil Present? Dark Surface (S7) Dark Surface (S7) LRR K, L) Polyvalue Below Surface (S8) LRR K, L) Polyvalue Below Surface (S8) LRR K, L) Thin Dark Surface (S9) Lea La							1400)				
Stratified Layers (A5)						(=: \:\ I L)					(=:X:X:1X, E, IX)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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									-		(IBBK I)
Thick Dark Surface (A12)		• • •	\11\	 '						, ,	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			111)								
Sandy Gleyed Matrix (S4)									ū	, ,	
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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		• • • •		Redox Depress	ions (F8)						
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators 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		• • • • •									4A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No											40)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No											12)
Restrictive Layer (if observed): Type:	Dark Su	mace (S7) (LRR R, ML	.RA 149B)					Otne	r (Explain i	n Remarks)	
Restrictive Layer (if observed): Type:	3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
Type:							· 				
Depth (inches): Hydric Soil Present? Yes X No		.ayer (if observed):									
	· · · —										
Remarks:	Depth (in	ches):						Hydric Soil P	resent?	Yes X	_ No
	Remarks:										

Project/Site:	19020 -	South Ripley		City/Cou	nty:	Chautauqua	County	Sampling Date:	07/14/2020
Applicant/Owner:			nectGen LLC	,	, <u> </u>	· ·	ate: New York		043-1W
Investigator(s):		att Spadoni		Section,	Township, Ra			wn of Ripley	
Landform (hillslope, terra	ace, etc):	Lowland	Local re	elief (conc	ave, convex, i	none):	Concave		e (%): 0-5
Subregion (LRR or MLR			Lat:	-	19411089		-79.659086	47 Datu	m: NAD 83
Soil Map Unit Name:	,		Erie silt loam	1			NWI classification	on:	-
Are climatic / hydrologic	conditions on the	site typical for this	s time of year?	Yes 2	X No	(If no	_ , explain in Remark	(s.)	
Are Vegetation	, Soil ,	or Hydrology	significantl	y disturbed	d?	Are "Normal Cir	cumstances" prese	ent? Yes	X No
Are Vegetation				roblematic	?	(If needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map s	howing san	npling p	oint location	ons, transed	cts, important	features, etc.	
Hydrophytic Vegetatio		Yes X	No		Is the Sam		•		
Hydric Soil Present?		Yes X	No No	_	within a W	•	Yes X	No	
Wetland Hydrology Pr	esent?	Yes X	No		If yes, optio	nal Wetland Sit	e ID:		<u>—</u> Л
Remarks: (Explain alt	ernative procedur d from somewhat		parate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi		nuired: check all th	at apply)				Secondary Indic	ators (minimum of	two required)
Surface Water (A	-		Water-Staine	d Leaves ('B9)			l Cracks (B6)	two roquirou)
High Water Table	•	<u></u>	Aquatic Faun	-	()			atterns (B10)	
Saturation (A3)	` '		Marl Deposits				Moss Trim I		
Water Marks (B1)		Hydrogen Su	lfide Odor	(C1)		Dry-Seasor	Water Table (C2)	
Sediment Depos	its (B2)		Oxidized Rhiz	zospheres	on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of I	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial Im	nagery (C9)
Algal Mat or Crus	st (B4)		Recent Iron F	Reduction i	in Tilled Soils	(C6)	Stunted or \$	Stressed Plants (D	1)
Iron Deposits (B5	5)		Thin Muck Su	urface (C7))		X Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Image	ry (B7)	Other (Explai	n in Rema	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetat	ted Concave Surfa	ace (B8)					Microtopogi	raphic Relief (D4)	
							X FAC-Neutra	Il Test (D5)	
Field Observations:									
Surface Water Presen	nt? Yes	No X	Depth (inch	es):					
Water Table Present?		No X							
Saturation Present?	Yes	No X	Depth (inch	· —		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary frin	ge)			, <u> </u>		-		·	
Describe Recorded Da		n monitoring wall	acrial photos r	vrovious in	spections) if	ovailable:			
Describe Recorded Da	ala (Siream gauge	e, monitoring well,	aeriai priotos, p	nevious in	spections), ii i	avaliable.			
Domonko									
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 043-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1.	7000001	орсою:	Otatus	Total Number of Dominant
				Species Across All Strata:1 (B)
· · · · · · · · · · · · · · · · · · ·				Description of Description
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6		_		Prevalence Index worksheet:
7				
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 5 x 1 = 5
1				FACW species 105 x 2 = 210
2				FAC species 0 x 3 = 0
3.				FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5				Column Totals:120 (A)255 (B)
^				Prevalence Index = B/A = 2.13
·		-		
1.		= Total Cov		Hydrophytic Vegetation Indicators:
Hart Otastona (District		_ = Total Cov	EI	X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Phragmites australis / Common reed	65	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Lysimachia nummularia / Moneywort, Creeping-jenny	25	No	FACW	4 - Morphological Adaptations (Provide supporting
Onoclea sensibilis / Sensitive fern	15	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Solidago canadensis / Canada goldenrod	10	No	FACU	Troblematio Tryarophytic Vegetation (Explain)
5. Juncus effusus / Common bog rush, Soft or lamp rush	5	No	OBL	1 malicators of budgie poil and watland budgeless and
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
0				Definitions of Variation Strate
				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		- 		Sapling/shrub - Woody plants less than 3 in. DBH and
	120	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 043-1W

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-3 10YR 3/1 100 Clayy loam 3-12 10YR 5/2 80 10YR 6/8 20 C M Clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, M=Matrix Redox Features Texture Remarks Clayey loam Clay Texture Remarks Clayey loam Clay Clayey loam Clayey loa	
0-3 10YR 3/1 100 Clayey loam 3-12 10YR 5/2 80 10YR 6/8 20 C M Clay	
3-12 10YR 5/2 80 10YR 6/8 20 C M Clay	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Ma	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Ma	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Ma	
	trix.
lydric Soil Indicators: Indicators for Problematic Hydric So	oils³:
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLI	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR	-
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (L	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L)	, =, 1\
Stratified Layers (A5) X Depleted Matrix (F3) Polyvalue Below Surface (S8) (L	RR K I)
X Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K,	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Iron-Manganese Masses (F12)	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (
Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144,	
Sandy Redox (S5) Red Parent Material (F21)	4, 143, 1430)
Stripped Matrix (S6) Stripped Matrix (S6) Very Shallow Dark Surface (TF12	`
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	,
Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Description I arranged to the control of the contro	
Restrictive Layer (if observed):	
Type: Rock	NI-
Depth (inches): 12 Hydric Soil Present? YesX	No
Remarks:	
Refusal at 12	

Project/Site:	19020 -	South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	07/14/2020
Applicant/Owner:			ConnectGen LLC	. ,	, <u> </u>	•	ate: New York		044-1W
Investigator(s):		att Spadoni		Section,	Township, Rar			vn of Ripley	
Landform (hillslope, terra	ace, etc):	Lowland	Local r		ave, convex, n		Concave	Slope	(%): 0-3
Subregion (LRR or MLR			Lat:		19382907	Long:			
Soil Map Unit Name:							NWI classification		
Are climatic / hydrologic				Yes >	X No	(If no,	_ explain in Remark	s.)	
, ,		7.	significant			` '	cumstances" prese	,	(No
			naturally p				ain any answers in		
SUMMARY OF FIN						=	-	•	
						·	oto, important		
Hydrophytic Vegetatio	in Present?		X No		Is the Samp		Van V	Na	
Hydric Soil Present?					within a We		Yes X	_	_
Wetland Hydrology Pr	esent?	Yes	X No	_	ii yes, opuor	iai vveliano Sile	e ID:	Wetland 44 PEM	-
Remarks: (Explain alt	ernative procedur	es here or in a	separate report.)						
, ,	•								
HYDROLOGY									
Wetland Hydrology I							0 1 1 1		
Primary Indicators (m		juired; check a			50)			ators (minimum of t	wo required)
Surface Water (A	,		X Water-Staine	•	B9)			Cracks (B6)	
High Water Table	∌ (A2)		Aquatic Faur				X Drainage Pa		
Saturation (A3)			Marl Deposits	,	(0.1)		Moss Trim L	, ,	
Water Marks (B1	•		Hydrogen Su					Water Table (C2)	
Sediment Depos	` '		X Oxidized Rhi	-	-	ts (C3)	Crayfish Bu		
Drift Deposits (B	•		Presence of		, ,			isible on Aerial Ima	
Algal Mat or Crus					n Tilled Soils ((C6)		Stressed Plants (D1)
Iron Deposits (B	•		Thin Muck Si				X Geomorphic		
	e on Aerial Image	•	Other (Explain	in in Remar	rks)		Shallow Aqu		
Sparsely Vegeta	ted Concave Surfa	ace (B8)						aphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Preser	nt? Yes	No	X Depth (inch	es):					
Water Table Present?		No No	X Depth (inch						
Saturation Present?	Yes	No No	X Depth (inch			Wetland Hvd	rology Present?	Yes X	No
(includes capillary frin					-	,			
Describe Recorded D	ata (stream gauge	e, monitoring w	vell, aerial photos, p	previous ins	spections), if a	vailable:			
Demorker									
Remarks:									

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species Status Total Number of Dominant Species Species Status Total Number of Dominant Species Species Status Total Number of Dominant Species S	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 5 (A)	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)	Absolute	VEGETATION - Use scientific names of plants.				Sampling Point:044-1W
Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 5 (A)	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 5 (A)	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 5 (A)					Dominance Test worksheet:
Absolute Species Status Total Are OBL, FACW, or FAC: 5	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 5 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 5 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 5 (A)					
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 5 (B) Species Sp	Tree Stratum	Tree Stratum	Tree Stratum		Absolute	Dominant	Indicator	•
Total Number of Dominant Species Species Across All Strata: Species Across Across All Strata: Species Across Across All Strata: Species Across All Strata: Species Across Across All Strata: Species Across Across Across All Strata: Species Across Acros Across Acros	Total Number of Dominant Species 3	Total Number of Dominant Species 3	Total Number of Dominant Species 3	Tree Stratum (Plot size: 30)				Tildt Ale ODL, I AOW, OI I AO.
Species Across All Strata: 5 (B)	2	Species Across All Strata: 5 (B)	Species Across All Strata: 5 (B)		/000vci	openes:	Status	T-t-I Number of Deminant
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	3	3	3	•				
Percent of Dominant Species That Ave OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	_				Species Across All Strata: 5 (B)
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	3				
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	4				Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15)	Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total % Cover of:	F				That Are OBL, FACW, or FAC: 100.0 (A/B)
Prevalence Index worksheet: Total 'Sc Over of: Multiply by:	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 30	Prevalence Index worksheet: Total % Cover of: Multiply by:	Prevalence Index worksheet: Total % Cover of: Multiply by:	6			-	
Total Cover Total Cover Total Cover Total Cover Total Sepacies 30 x 1 30	Total Cover Total (% Cover of: Multiply by: OBL species 30 x1 = 30	Total (% Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) Total Cover Total (% Cover of: Multiply by: OBL species 30 x1 = 30 FACW species 50 x2 = 100 FACW species 50 x2 = 100 FACW species 50 x2 = 100 FACW species 50 x4 = 20 UPL species 0 x5 = 0 UPL species 0 x5 = 0 UPL species 0 x5 = 0 Column Totals: 85 (A) 150 (B) Trevalence Index = B/A = 1.76 Total Cover Total Co	Total (% Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) Total Cover Total (% Cover of: Multiply by: OBL species 30 x1 = 30 FACW species 50 x2 = 100 FACW species 50 x2 = 100 FACW species 50 x2 = 100 FACW species 50 x4 = 20 UPL species 0 x5 = 0 UPL species 0 x5 = 0 UPL species 0 x5 = 0 Column Totals: 85 (A) 150 (B) Trevalence Index = B/A = 1.76 Total Cover Total Co					Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size:	Saping/Shrub Stratum (Plot size:	Sapling/Shrub Stratum (Plot size:	Sapling/Shrub Stratum (Plot size:			= Total Cov	/er	Total % Cover of: Multiply by:
FACW species 50	FACW species 50 x 2 = 100	FACW species 50 x 2 = 100	FACW species 50 x 2 = 100	Sanling/Shruh Stratum (Plot size: 15)		_ '0		
2.	2. 3. 4. 5. 6. 7. 8. 9. 1. Oncolea sensibilis / Sensitive fern 20. Yes FACW 2. Scirpus cyperinus / Woody vines stratum (Plot size: 5) 5. Lysimachia nummularia / Moneywort, Creeping-jenny 15 Yes FACW 7. 8. 9. 10. 10. 11. 11. 12. 10. 11. 12. 11. 12. 13. 14. 15. 16. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Oncolea sensibilis / Sensitive fern 2. Scirpus cyperinus / Woody vines and agoldenrod 5. 5. Lysimachia nummularia / Moneywort, Creeping-jenny 6. Solidago canadensis / Canada goldenrod 7. 8. 9. 10. 10. 11. 12. 12. 13. 14. 15. 15. 16. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Oncolea sensibilis / Sensitive fern 2. Scirpus cyperinus / Woody vines and agoldenrod 5. 5. Lysimachia nummularia / Moneywort, Creeping-jenny 6. Solidago canadensis / Canada goldenrod 7. 8. 9. 10. 10. 11. 12. 12. 13. 14. 15. 15. 16. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18					
3.	FACU species 5	FACU species 5	FACU species 5					
A	Verbena simplex / Narrowleaf vervain Solidago canadensis / Canada goldenrod Solidago canadensis / Canada goldenro	VPL species 0	VPL species 0	2				
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6. 7.	6.	6.	6.	E			-	Column Totals: <u>85</u> (A) <u>150</u> (B)
Tree - Woody Vine Stratum (Plot size:	7. Herb Stratum (Plot size: 5)	Total Coverage Factor Fa	Total Coverage Factor Fa	0				Prevalence Index = B/A = 1.76
Herb Stratum (Plot size:5)	Nonclea sensibilis Sensitive fem 20	Nonclea sensibilis Sensitive fem 20	Nonclea sensibilis Sensitive fem 20				-	
Note Stratum Plot size: 5 1 20 Yes FACW 2 2 20 Note 5 20 3 20 3 20 20 3 20 20	Herb Stratum (Plot size: 5	Herb Stratum (Plot size: 5	Herb Stratum (Plot size: 5	1.				Hydrophytic Vegetation Indicators:
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8	8	8	8	7.				be present, unless disturbed of problematic.
9.	9.	9.	9.	0				Definitions of Vacatation Strata
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1	1	1	1		85	= Total Cov	er	
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3	3	3	3	2				
4. O = Total Cover Hydrophytic Vegetation	4	4	4	Z				
0 = Total Cover Hydrophytic Vegetation	0 = Total Cover Hydrophytic Vegetation Present? Yes X No	0 = Total Cover	0 = Total Cover	3				height.
Vegetation	Vegetation Present? Yes X No	Vegetation Present? Yes X No	Vegetation Present? Yes X No	4				
	Present? YesX No	Present? Yes X No	Present? Yes X No		0	= Total Cov	er	Hydrophytic
	Present? YesX No	Present? Yes X No	Present? Yes X No			_		Vegetation
1.000m. 100 <u>X</u> 100								
	Provider (Finish alternative properties are partial property)	Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					Flesent: 169 X NO
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SOIL Sampling Point: ____044-1W

Depth	ription: (Describe to the Matrix	<u> </u>		r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10YR 3/1	90	5YR 4/6	10	C	PL	Loamy clay			
12-18	10YR 4/2	75	10YR 5/8	25	C	M	Clay			
				_						
				_						
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Гуре: С=Со	ncentration, D=Depletio	n, RM=Redi	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Locat	ion: PL=Pore I	Lining, M=Matr	ix.
vdric Soil I	ndicators:						Indicators	for Problema	tic Hydric Soil	le ³ ·
Histosol			Polyvalue Belov	v Surface (S	8) (I RR R	MI RA 149			RR K, L, MLR	
	pipedon (A2)		Thin Dark Surfa						(A16) (LRR K	•
	istic (A3)		Loamy Mucky M			(1430)			Peat (S3) (LR	
	en Sulfide (A4)		Loamy Gleyed N		(LIXIX IX, L)			Surface (S7) (·· ··, L, ··)
	d Layers (A5)		X Depleted Matrix						face (S8) (LR	PK I)
	d Below Dark Surface (A	Δ11)	X Redox Dark Sur						69) (LRR K, L	· ·
	ark Surface (A12)	~11 <i>)</i>	Depleted Dark S						sses (F12) (L	
	Mucky Mineral (S1)		Redox Depressi					-	Soils (F19) (N	
	Gleyed Matrix (S4)		Redox Depressi	0113 (1 0)					(MLRA 144A,	
	Redox (S5)							arent Material	-	140, 1402,
	Matrix (S6)							hallow Dark S		
	rface (S7) (LRR R, ML	RA 149R)						(Explain in Re		
Dark ou	made (07) (Errich, III.	.iva 140 D)						(Explain in rec	marko)	
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Pontriotivo I	aver (if absorved).									
	_ayer (if observed):									
Type:	obos).						Hydria Sail Dr	ocont?	Voc. V	No
Depth (in	icnes):						Hydric Soil Pro	esent?	Yes X	No
Remarks:										

Project/Site:	19020 -	 South Ripley 	City/C	County:	Chautauqua C	ounty	Sampling Date:	07/14/2020
Applicant/Owner:			nnectGen LLC	· —		te: New York		044/3-1U
Investigator(s):		latt Spadoni	Section	on, Township, Rar			vn of Ripley	
Landform (hillslope, terra		•		oncave, convex, n	-	Convex		(%): 3-5
Subregion (LRR or MLR				42.19384978	Long:	-79.658937		`
Soil Map Unit Name:			Erie silt loam			NWI classification		
Are climatic / hydrologic		e site typical for thi		X No.	(If no. 6	explain in Remark		
Are Vegetation						umstances" prese	•	. No
			naturally problem			n any answers in		
SUMMARY OF FIN					=	•	•	
		-				.s, important	leatures, etc.	
Hydrophytic Vegetation	on Present?	Yes		Is the Samp				
Hydric Soil Present?		Yes		within a We			NoX	-
Wetland Hydrology Pr	resent?	Yes	NoX	If yes, option	nal Wetland Site	ID:		
Remarks: (Explain alto	ternative procedu	res here or in a se	parate report.)					
HYDROLOGY								
Wetland Hydrology I								
Primary Indicators (mi		quired; check all th					ators (minimum of to	vo required)
Surface Water (A	•		_ Water-Stained Leav	, ,			Cracks (B6)	
High Water Table	e (A2)		_ Aquatic Fauna (B13				atterns (B10)	
Saturation (A3)		_	_ Marl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1	•	_	_ Hydrogen Sulfide O				Water Table (C2)	
Sediment Depos			 Oxidized Rhizosphe 	-	ts (C3)	Crayfish Bu	` '	
Drift Deposits (B:	•		Presence of Reduce	` '		_	isible on Aerial Ima	
Algal Mat or Crus		_	Recent Iron Reducti	`	C6)		Stressed Plants (D1)
Iron Deposits (B	•		Thin Muck Surface (Position (D2)	
Inundation Visible	le on Aerial Image	· · · · —	Other (Explain in Re	emarks)		Shallow Aqu	uitard (D3)	
		faco (D0)				Microtopogr	aphic Relief (D4)	
Sparsely Vegetat	ted Concave Sur	iace (Do)						
Sparsely Vegetat	ted Concave Sur	iace (bo)				FAC-Neutra	l Test (D5)	
	ted Concave Sur			T		FAC-Neutra	I Test (D5)	
Field Observations:			Denth (inches):			FAC-Neutra	l Test (D5)	
Field Observations: Surface Water Preser	nt? Yes	NoX	_ ' ' _			FAC-Neutra	Test (D5)	
Field Observations: Surface Water Preser Water Table Present?	nt? Yes	No X No X	Depth (inches):		Wetland Hydr	_		No. V
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes Yes Yes	No X No X	Depth (inches):		Wetland Hydro	FAC-Neutra	Yes	NoX
Field Observations: Surface Water Preser Water Table Present?	nt? Yes Yes Yes	No X No X	Depth (inches):		Wetland Hydr	_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a		_		No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a				No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes Yes Yes nge)	No X No X No X	Depth (inches): Depth (inches):	s inspections), if a				No X

/EGETATION - Use scientific names of plants.				Sampling Point:044.	/3-1U
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0	(A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	That file OBE, I flow, of the	_ (/ (/
1.	7000VCI	орсскоз:	Otatus	Total Number of Dominant	
^					(D)
2.				Species Across All Strata: 2	(B)
3.					
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 0.0	(A/B)
6				Burnels and the development of the section	
7				Prevalence Index worksheet:	
	0	_ = Total Cov	er	Total % Cover of: Multiply by:	_
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0	
1.				FACW species 5 x 2 = 10	_
2				FAC species 0 x 3 = 0	
3.				FACU species 85 x 4 = 340	
4.				UPL species 20 x 5 = 100	
5.				Column Totals:110(A)450	(B)
6				Prevalence Index = B/A = 4.09	
7		_			_
1.		= Total Cov		Hydrophytic Vegetation Indicators:	
Harb Chrotune (Distaine) F		_ = 10(a) C0v	CI	1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5	00	\\	FAOLI	2 - Dominance Test is >50%	
Solidago canadensis / Canada goldenrod	80	_ Yes	FACU	3 - Prevalence Index ≤3.0¹	
2. Lilium lancifolium / Tiger lily		No No	UPL	4 - Morphological Adaptations (Provide support	ing
Lysimachia nummularia / Moneywort, Creeping-jenny	5	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)	•
4. Tussilago farfara / Colt's-foot	5	Yes	<u>FACU</u>		
5				¹Indicators of hydric soil and wetland hydrology mus	t
6		_		be present, unless disturbed or problematic.	•
7				be present, unless distarbed of problematic.	
8				Definitions of Vegetation Strata	
9					
10				Tree - Woody plants 3 in. (7.6 cm) or more in diamet	er at
11.				breast height (DBH), regardless of height.	.0. 4.
12.				Sapling/shrub - Woody plants less than 3 in. DBH a	and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)		_			o of
1.				Herb - All herbaceous (non-woody) plants, regardles size, and woody plants less than 3.28 ft tall.	SS 01
2.		_	-		
2		_	-	Woody vines - All woody vines greater than 3.28 ft	ın
4				height.	
4		= Total Cov		Hydrophytic	
		_ = 10(a) Cov	ы		
				Vegetation	
				Present? Yes No X	
Remarks: (Explain alternative procedures here or in a separa	ate renort)				
Tremains. (Explain alternative procedures here or in a separ	ate report.)				

SOIL Sampling Point: 044/3-1U

Depth	ription: (Describe to th Matrix			x Features				-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-12	10YR 4/2	100					Loam				
	-										
	-										
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, N	л=Matrix.	
Hydric Soil I									ematic Hydi		
Histosol	• •		Polyvalue Belov					•) (LRR K, L		-
	oipedon (A2)		Thin Dark Surfa			49B)			dox (A16)		
	stic (A3)		Loamy Mucky N		LRR K, L)		5 cm N	/lucky Pea	t or Peat (S	3) (LRR K	, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark S	Surface (S	7) (LRR K ,	L)	
	d Layers (A5)		Depleted Matrix						Surface (S8		, L)
Depleted	d Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin D	ark Surfac	ce (S9) (LR	RK, L)	
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-M	anganese	Masses (F1	12) (LRR	K, L, R)
Sandy M	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Flood	olain Soils (F	19) (MLR	A 149B)
Sandy G	Sleyed Matrix (S4)						Mesic	Spodic (Ta	A6) (MLRA	144A, 14	5, 149B)
Sandy R	Redox (S5)						Red P	arent Mate	erial (F21)		
Stripped	l Matrix (S6)						Very S	hallow Da	rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)							Remarks)		
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed o	r problema	atic.				
Restrictive L	ayer (if observed):										
Type:	ayor (ii oboor rou):										
Depth (in	ches).						Hydric Soil Pr	esent?	Yes	No	X
Deptii (iii							Tryunc Con 1 1	esent:			
Remarks:											
	Gravel refusal at 12										

Project/Site:	19020 - Sou	th Ripley	City/Co	unty:	Chautauqua (County	Sampling Date:	07/13/2020
Applicant/Owner:			Gen LLC	·		ate: New York		045-1U
Investigator(s):		padoni		, Township, Ra			vn of Ripley	
Landform (hillslope, terrad			Local relief (con			Convex		(%): 2-5
Subregion (LRR or MLRA		MLRA 139		.18920324	Long:	-79.6720710		` '
Soil Map Unit Name:	·		_		20119	NWI classification		14/12/00
Are climatic / hydrologic c					(If no	explain in Remark		
, ,	, Soil, or F		<u> </u>			cumstances" prese	•	(No
			naturally problemati			in any answers in		<u> </u>
			=		•	•	•	
SUMMARY OF FINE		-		Joint location	ons, transec	ts, important	leatures, etc.	
Hydrophytic Vegetation	Present?		√o <u>X</u>	Is the Sam	pled Area			
Hydric Soil Present?		Yes N	No <u>X</u>	within a W	etland?	Yes	NoX	_
Wetland Hydrology Pre	sent?	Yes N	√o <u>X</u>	If yes, optio	nal Wetland Site	: ID:		
Remarks: (Explain alter	rnative procedures h	ere or in a senarat	e report)					
Tromano. (Explain alto	mativo procoduros n	oro or ar a coparat	о тороги,					
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min	imum of one require						tors (minimum of t	wo required)
Surface Water (A1)		ater-Stained Leaves	(B9)			Cracks (B6)	
High Water Table	(A2)	Ac	ıuatic Fauna (B13)			Drainage Pa	itterns (B10)	
Saturation (A3)		Ma	arl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1)		Hy	drogen Sulfide Odo	r (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	O	kidized Rhizosphere	s on Living Ro	ots (C3)	Crayfish Bu	rows (C8)	
Drift Deposits (B3))	Pr	esence of Reduced	Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Re	ecent Iron Reduction	in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5))	Th	in Muck Surface (C	7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (E	37) Ot	her (Explain in Rem	arks)		Shallow Aqu	itard (D3)	
Sparsely Vegetate	ed Concave Surface	(B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	Test (D5)	
Field Observations:								
Surface Water Present	-		Depth (inches):					
Water Table Present?	Yes		Depth (inches):					
Saturation Present?	Yes	No <u>X</u> [Depth (inches):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	e)							
Describe Recorded Date	ta (stream dauge im	onitoring well seri	al nhotos previous i	nenections) if:	available:			
Describe Necorded Da	ia (Siream gauge, mi	ornitoring well, aeric	ai priotos, previous i	rispections), ii i	avallable.			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:045-1U
•				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Prunus serotina / Black cherry	25	Yes	FACU	Total Number of Dominant
Carpinus caroliniana / American hornbeam	25	Yes	FAC	Species Across All Strata: 5 (B)
Acer saccharum / Sugar maple		Yes	FACU	Species Across Air Strata (b)
	10	No		Deposit of Deminent Charles
4. <u>Tsuga canadensis / Eastern hemlock</u>		INO	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40.0 (A/B)
6		_		Prevalence Index worksheet:
7				
	75	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Fagus grandifolia / American beech	15	No	FACU	FACW species 20 x 2 = 40
2.				FAC species 25 x 3 = 75
3.				FACU species115 x 4 =460
A				UPL species 0 x 5 = 0
				Column Totals: 160 (A) 575 (B)
•				Prevalence Index = B/A = 3.59
6		_		
7	-			Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Fagus grandifolia / American beech	40	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Fraxinus pennsylvanica / Green ash	20	Yes	FACW	
3. Polystichum acrostichoides / Christmas fern	10	No	FACU	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
E				
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
-				
8		_		Definitions of Vegetation Strata
9				
10		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	70	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.		_		
·· <u>-</u>	0	= Total Cov		Hydrophytic
		_ = 10tai 00v	Ci	Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	o roport)			
Remarks. (Explain alternative procedures here of in a separati	e report.)			

 SOIL
 Sampling Point:
 045-1U

Depth	ription: (Describe to th Matrix			x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-1	10YR 2/1	100					Loam				
1-6	10YR 4/3	100					Sandy loam				
	· · · · · · · · · · · · · · · · · · ·										
	<u> </u>										
	·										
	-		-								
T C-Ca.	nontration D-Danietics		and Matrix MC-Man	lead Cand Cr			21 000450	DI D	ara Linina A	1-11atrix	
Type: C=Co	ncentration, D=Depletion	n, Rivi=Redu	ced Matrix, MS=Mas	ked Sand Gr	airis.		-Locatio	n: PL=P	ore Lining, N	vi=iviatrix.	
Hydric Soil I	ndicators:						Indicators fo	or Proble	ematic Hyd	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S) (LRR R,ML	RA 1491	3) 2 cm Mi	uck (A10) (LRR K, L	., MLRA 1	49B)
Histic E	pipedon (A2)		Thin Dark Surfa	ace (S9) (LR	R R, MLRA 14	19B)	Coast P	rairie Re	dox (A16)	(LRR K, L	, R)
	istic (A3)		Loamy Mucky N						t or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		,				7) (LRR K ,		
	d Layers (A5)		Depleted Matrix						Surface (S	-	(. L)
	d Below Dark Surface (A	111)	Redox Dark Su						ce (S9) (LR		-, -,
	ark Surface (A12)	111)	Depleted Dark	` ,					Masses (F		K I D)
	• •							-	-		
	Mucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F		
	Gleyed Matrix (S4)								46) (MLRA	X 144A, 14	5, 149B)
	Redox (S5)								erial (F21)		
	d Matrix (S6)								rk Surface (TF12)	
Dark Su	ırface (S7) (LRR R, ML	RA 149B)					Other (E	Explain in	Remarks)		
3ladiaatara of	i budua mbudia wa matatia m		hudealasu mush ha m			مسماطمسم	a ti a				
indicators of	hydrophytic vegetation	and welland	nyarology must be p	oresent, unies	s disturbed or	problem	alic.				
Restrictive L	_ayer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Pres	sent?	Yes	No	X
Remarks:											
	Root refusal at 6										

Project/Site:	19020 - So	outh Ripley		City/Cou	nty:	Chautauqua (County	Sampling Date:	07/13/2020
Applicant/Owner:		Co	nnectGen LLC			•	ate: New York		045-1W
Investigator(s):		Spadoni		Section.	Township, Ra			vn of Ripley	
Landform (hillslope, terra		•		-	ave, convex, r	_	Concave		(%): 0-5
Subregion (LRR or MLR			Lat:			Long:			`
Soil Map Unit Name:							NWI classification		PFO
Are climatic / hydrologic						(If no	explain in Remark		. •
	_, Soil, or						cumstances" prese	•	(No
	_, Soil, or _, Soil, or						ain any answers in		
SUMMARY OF FIN	-	·					-	•	
							is, important	ieatures, etc.	
Hydrophytic Vegetatio	n Present?	Yes X	No		Is the Sam				
Hydric Soil Present?		Yes X	No	_	within a We		Yes X		_
Wetland Hydrology Pr	esent?	Yes X	No	_	If yes, optio	nal Wetland Site	e ID:	Wetland 45	
Remarks: (Explain alte	ernative procedures	here or in a se	parate report.)	l.					
HYDROLOGY									
	ndiaatara:								
Wetland Hydrology I							0	/:-:	1\
Primary Indicators (mi	· •		,		(DO)			ators (minimum of t	wo requirea)
Surface Water (A	,	<u></u>	Water-Staine	•	(B9)		X Surface Soi		
High Water Table	(A2)		_ Aquatic Faur				X Drainage Pa		
Saturation (A3)		_	Marl Deposit		(0.1)		Moss Trim L		
X Water Marks (B1		<u></u>	K Hydrogen Su					Water Table (C2)	
X Sediment Deposi		_	_	•	on Living Roo	ots (C3)	Crayfish Bu		
X Drift Deposits (B3	-	_	Presence of		` '			isible on Aerial Ima	
Algal Mat or Crus		_	 ;		in Tilled Soils	(C6)		Stressed Plants (D1)
Iron Deposits (B5		_	Thin Muck S				X Geomorphic		
	e on Aerial Imagery	· ·	Other (Explain	in in Rema	ırks)		Shallow Aqu	uitard (D3)	
X Sparsely Vegetat	ed Concave Surfac	e (B8)						aphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Presen	t? Yes	No X	Depth (inch	P6).					
Water Table Present?	Yes		Depth (inch						
Saturation Present?	Yes	NoX	· ·			Wotland Hyd	rology Present?	Yes X	No
(includes capillary fring		NO	Deptil (illici)			wetiana nya	rology Fresent:	163 <u>X</u>	
(includes capillary lifti	ge)								
Describe Recorded Da	ata (stream gauge,	monitoring well	, aerial photos, p	previous in:	spections), if a	available:			
		· ·							
Remarks:									
i									

VEGETATION - Use scientific names of plants.				Sampling Point: 045-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Crataegus / Hawthorn	15	Yes	FACU	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	10	Yes	FACU	Species Across All Strata: 4 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	25	= Total Cov	ver	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1.				FACW species 70 x 2 = 140
2.				FAC species 40 x 3 = 120
3.				FACU species 25 x 4 = 100
4.				UPL species 0 x 5 = 0
5.				Column Totals:135 (A)360 (B)
6.				Prevalence Index = B/A = 2.67
7.				
·· -		= Total Cov	ver	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			· ·	1 - Rapid Test for Hydrophytic Vegetation
1. Polygonum virginianum / Jumpseed	55	Yes	FACW	2 - Dominance Test is >50%
Symphyotrichum / Aster	40	Yes	FAC	X 3 - Prevalence Index ≤3.01
Fraxinus pennsylvanica / Green ash	<u></u> 15	No	FACW	4 - Morphological Adaptations (Provide supporting
4.			TAOW	Problematic Hydrophytic Vegetation¹ (Explain)
		_		
^		_		¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7.				
8.		_	 	Definitions of Vegetation Strata
9.				
10	 ,			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	 ,	_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110	_ = Total Cov	er er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.		_		size, and woody plants less than 3.28 ft tall.
2.		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
D	-1 1			
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: ____045-1W

Depth	Matrix			x Features			ce of indicator	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 4/3	75	5YR 5/8	25	С	PL,M	Clayey loam			
				- ——						
										
Type: C=Cond	centration, D=Depletion	ı, RM=Redu	iced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=Po	ore Lining, M=Ma	atrix.
Hydric Soil In	dicators:						Indicators	for Proble	ematic Hydric S	oils³:
Histosol (Polyvalue Belov	v Surface (S8) (LRR R	MLRA 149			(LRR K, L, ML	
	pedon (A2)		Thin Dark Surfa						dox (A16) (LRR	-
Black His			Loamy Mucky M			-			t or Peat (S3) (L	
	Sulfide (A4)		Loamy Gleyed N		, ,				7) (LRR K, L)	, , ,
	Layers (A5)		Depleted Matrix					-	Surface (S8) (L	RR K, L)
	Below Dark Surface (A	.11)	Redox Dark Sur						ce (S9) (LRR K,	· •
	k Surface (A12)		Depleted Dark S	Surface (F7)					Masses (F12)	
Sandy Mı	ucky Mineral (S1)		Redox Depressi	ions (F8)			—— Piedr	nont Floodp	olain Soils (F19)	(MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic	Spodic (TA	A6) (MLRA 144	A, 145, 149B)
Sandy Re	edox (S5)						Red I	Parent Mate	erial (F21)	
Stripped I	Matrix (S6)						Very	Shallow Da	rk Surface (TF12	2)
Dark Surf	ace (S7) (LRR R, MLI	RA 149B)					Other	(Explain in	Remarks)	
										
31	nydrophytic vegetation a	and wetland	hydrology must be p	resent, unles	s disturbed	l or problen	natic.			
rindicators of h	., a. op., j. a. rogotation t									
Restrictive La	ayer (if observed):									
Restrictive La	ayer (if observed):						Hvdric Soil P	resent?	Yes X	No
Restrictive La	ayer (if observed):		<u> </u>				Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	hes):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020 - South Rip	lev	City/County:	Chautauqua	County	Sampling Date:	07/15/2020
Applicant/Owner:	'	•	_	•	ate: New York		046-1U
Investigator(s):	Matt Spadoni & San		Section, Township			wn of Ripley	
Landform (hillslope, terrace,			relief (concave, conv		Convex		(%): 3-5
Subregion (LRR or MLRA):	LRR R MI RA	139 Lat:					` '
Soil Map Unit Name:		Langford silt loam, 8-			NWI classification		10.00
Are climatic / hydrologic cond				No (If no	_		
, ,	oil, or Hydrok	•			cumstances" prese	•	. No
	oil, or Hydrold				ain any answers in		
·					•	•	
SUMMARY OF FINDIN	NGS - Attach Site	nap snowing sai	mpling point loc	ations, transec	cts, important	reatures, etc.	
Hydrophytic Vegetation Pr	resent? Yes			Sampled Area			
Hydric Soil Present?	Yes	NoX	within a	a Wetland?	Yes	No X	=
Wetland Hydrology Preser	nt? Yes	No X	If yes, o	ptional Wetland Sit	e ID:		
Demontos (Evaleia elterna	tive present tree bere or						
Remarks: (Explain alterna	live procedures here or	in a separate report.)					
HYDROLOGY							
Wetland Hydrology India	ators:						
Primary Indicators (minimu		ck all that apply)			Secondary Indica	ators (minimum of tw	vo required)
Surface Water (A1)	a o. o o roquirou, o		ed Leaves (B9)			l Cracks (B6)	
High Water Table (A2)	Aquatic Fau	` '			atterns (B10)	
Saturation (A3)	•,	Marl Deposi			Moss Trim L		
Water Marks (B1)			ulfide Odor (C1)			Water Table (C2)	
Sediment Deposits (E	22)		nizospheres on Living	Poots (C3)	Crayfish Bu		
	52)			Roots (C3)			gon, (CO)
Drift Deposits (B3)	4)		Reduced Iron (C4)	eile (CC)		/isible on Aerial Ima	
Algal Mat or Crust (B	4)	Recent from	Reduction in Tilled S	olis (Cb)	Stunted or s	Stressed Plants (D1)
_ ·		Thin Marris C			0	D!#: (D0)	
Iron Deposits (B5)	A : 11 (DT)	Thin Muck S				Position (D2)	
Iron Deposits (B5) Inundation Visible on			Surface (C7) ain in Remarks)		Shallow Aqu	uitard (D3)	
Iron Deposits (B5) Inundation Visible on	Aerial Imagery (B7) Concave Surface (B8)				Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on					Shallow Aqu	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C					Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	Concave Surface (B8)	Other (Expla	ain in Remarks)		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present?	Concave Surface (B8) Yes N	Other (Expla	ain in Remarks) hes):	_	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present?	Yes N	Other (Explain of the control of the	hes):	- Wotland Hye	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No. Y
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes N	Other (Expla	hes):	_ _ _ Wetland Hyd	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present?	Yes N	Other (Explain of the control of the	hes):	_ _ _ Wetland Hyd	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Yes N Yes N Yes N	Other (Explain of the control of the	hes): hes):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 046-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Tsuga canadensis / Eastern hemlock	25	Yes	FACU	Total Number of Dominant
2. Acer saccharum / Sugar maple	20	Yes	FACU	Species Across All Strata: 5 (B)
3. Fagus grandifolia / American beech	15	No	FACU	
4. Prunus serotina / Black cherry	15	No	FACU	Percent of Dominant Species
5. Fraxinus pennsylvanica / Green ash	10	No	FACW	That Are OBL, FACW, or FAC: 20.0 (A/B)
6		_		
7				Prevalence Index worksheet:
	85	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x1 = 0
Carpinus caroliniana / American hornbeam	15	Yes	FAC	FACW species 10 x 2 = 20
2		_	_,	FAC species 15 x 3 = 45
3		_		FACU species 85 x 4 = 340 UPL species 0 x 5 = 0
4				
5				Column Totals: (A) (B) Prevalence Index = B/A = 3.68
6				Prevalence index – B/A –
7				Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Acer saccharum / Sugar maple	5	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Fagus grandifolia / American beech	5	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3.				Problematic Hydrophytic Vegetation¹ (Explain)
4	_	-		
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.				
8		_		Definitions of Vegetation Strata
9				
10.	-	-	<u> </u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.	10	= Total Cov	er	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)		_ = 10(a) COV	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.	_		- · -	
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4.			_,,	noight.
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX_
Remarks: (Explain alternative procedures here or in a separat	e report.)			

SOIL Sampling Point: 046-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/1 100 0-6 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 6

US Army Corps of Engineers

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/15/2020
Applicant/Owner:		ConnectGen LLC		S	tate: New York	Sampling Point:	046-1W
Investigator(s):	Matt Spadoni & Sam Pa	ırker	Section, Township	, Range:	To	wn of Ripley	
Landform (hillslope, terrace	e, etc): Active channel, floo	dplain, valle Local re	lief (concave, conv	ex, none):	Concave	Slope	(%): 0-5
Subregion (LRR or MLRA)	LRR R MLRA 13	9 Lat:	42.17843125	Long:	-79.710618	Datun	n: NAD 83
Soil Map Unit Name:		Ashville silt loar	n		NWI classificati	on: F	PEM
, ,	nditions on the site typical fo	•		No (If no	•	•	
	Soil, or Hydrology				rcumstances" pres		K No
· · · · · · · · · · · · · · · · · · ·	Soil, or Hydrology	·			lain any answers ir	•	
SUMMARY OF FIND	INGS - Attach site ma	p showing sam	pling point loc	ations, transe	cts, important	features, etc.	
Hydrophytic Vegetation I	Present? Yes	X No	_ Is the S	Sampled Area			
Hydric Soil Present?	Yes	X No	within	a Wetland?	Yes X	No	_
Wetland Hydrology Pres	ent? Yes	X No	_ If yes, o	ptional Wetland Si	te ID:	Wetland 46	
Remarks: (Explain altern	native procedures here or in a	separate report.)	·				
HYDROLOGY							
Wetland Hydrology Ind	icators:						
	num of one required; check a	all that apply)			Secondary Indic	ators (minimum of t	wo required)
X Surface Water (A1)		X Water-Stained	Leaves (B9)			il Cracks (B6)	. ,
X High Water Table (A	\2)	X Aquatic Fauna	a (B13)		X Drainage P	atterns (B10)	
X Saturation (A3)		Marl Deposits	(B15)		Moss Trim	Lines (B16)	
X Water Marks (B1)		X Hydrogen Sul	fide Odor (C1)		Dry-Seasor	n Water Table (C2)	
X Sediment Deposits	(B2)	Oxidized Rhiz	ospheres on Living	Roots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of R	educed Iron (C4)		X Saturation	Visible on Aerial Ima	agery (C9)
X Algal Mat or Crust (B4)		eduction in Tilled S	oils (C6)		Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck Su			X Geomorphi		
X Inundation Visible of		Other (Explain	in Remarks)		Shallow Aq		
Sparsely Vegetated	Concave Surface (B8)					raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inche	es): 0-10	_			
Water Table Present?	Yes X No	Depth (inche	es): 6	_			
Saturation Present?	Yes X No	Depth (inche	es): 0	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Date	ı (stream gauge, monitoring v	vall parial photos p	covious inspections) if available:			
Describe Recorded Data	(Stream gauge, monitoring v	veii, aeriai priotos, pi	evious irispections), ii avaliable.			
Remarks:							

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species Status Total Number of Dominant Species Species Status Species Access A	Absolute	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	Absolute	VEGETATION - Use scientific names of plants.				Sampling Point: 046-1W
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	Absolute	Absolute	Absolute					Dominance Test worksheet:
Absolute Species Status Total Number of Dominant Indicator	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1 (A)	Absolute	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1 (A)					
Tree Stratum (Plot size: 30 %Cover Species? Status	Tree Stratum	Tree Stratum	Tree Stratum		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata: 1	Total Number of Dominant Species 3	Total Number of Dominant Species Across All Strats: 1 (B)	Total Number of Dominant Species 3	Troe Stratum (Diet eize: 20				That Ale OBL, FACW, of FAC. (A)
2.	Species Across All Strata: 1 (B)	Species Across All Stratas: 1	Species Across All Strata: 1 (B)		%Cover	Species?	Status	
Percent of Dominant Species That Ave OBL, FACW, or FAC: 100.0 (A/B)	3	Section Sect	3					
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (WB)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	2				Species Across All Strata: 1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	3				
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)					Percent of Dominant Species
Prevalence Index worksheet: Total 'Cover of: Multiply by: OBL species 5	Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total '% Cover of:	Prevalence Index worksheet: Total % Cover of:	F				·
Prevalence index worksheet: Total X Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15)	Prevalence Index worksheet: Total % Cover of: Multiply by: DBL species 5	Prevalence Index worksheet: Total '% Cover of:	Prevalence Index worksheet: Total % Cover of: Multiply by: DBL species 5	•				11100 0000, 171011, 011101
Total Cover	Total Cover Total Cover Total Cover Sapling/Shrub Stratum (Plot size: 15)	Total % Cover of:	Total Cover Total Cover Total Cover Sapling/Shrub Stratum (Plot size: 15)					Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:	Saping/Shrub Stratum (Plot size: 15)	Saping/Shrub Stratum (Plot size: 15)	Saping/Shrub Stratum (Plot size: 15)	1.				
FACW species 95 x2 = 190	FACW species 95 x 2 = 190	FACW species 95 x 2 = 190	FACW species 95 x 2 = 190			_ = Total Cov	er	
2.	2. 3. 4. 5. 6. 7. 8. 9. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 3. Impatiens capensis / Spotted jewelweed 4. Eutrochium purpureum / Sweet-scented joe-pye-weed 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5. 8. 9. 10. 10. 11. 12. 10. 10. 10. 11. 12. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 3. 4. 12. 13. 4. 14. 15. 15. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 3. Impatiens capensis / Spotted jewelweed 4. Euptorium perfolatum / Common boneset 5. No FACW 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purureum / Sweet-scented joe-pye-weed 7. 8. 9. 10. 10. 11. 12. 10. 10. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 11. 3. 4. 12. 13. 4. 14. 15. 16. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	2. 3. 4. 5. 6. 7. 8. 9. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 3. Impatiens capensis / Spotted jewelweed 4. Eutrochium purpureum / Sweet-scented joe-pye-weed 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5. 8. 9. 10. 10. 11. 12. 10. 10. 10. 11. 12. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 2. 10. 11. 3. 4. 12. 13. 4. 14. 15. 15. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Sapling/Shrub Stratum (Plot size: 15)				· — — —
2.	2.	2.	2.	1.				
Act	A	A	A					FAC species 5 x 3 = 15
4. Colum Totals: 105 (A) 210 (B) Ferb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 70 Yes FACW 2. Carex intumescens / Greater bladder sedge 10 No FACW 3. Impatiens capenis / Spotted jewelweed 10 No FACW 4. Eupatorium perfoliatum / Common boneset 5 No FACW 5. Asclepias incarnata / Swamp milkweed 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FACW 7. 8. 9. 10.	Column Totals: 105 (A) 210 (B)	4. Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0¹ A - FACW A - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strate Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (in) tall. Woody vine Stratum (Plot size: 30) 1. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Hydrophytic Vegetation Hydrophytic Vegetation Strate Tree - Woody plants less than 3.28 ft in height.	Column Totals: 105 (A) 210 (B)	3		_		FACU species 0 x 4 = 0
Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Prevalence Index = B/A = 2.0	Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (F) 2.0 Column Total Cover	Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 20 (B) Prevalence Index = B/A = 2.0 A - Rorphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation *(Explain)* Problematic Hydrophytic Vegetation *(Explain)* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (In) tall. Woody vines - All woody vines greater than 3.28 ft in height. Column Totals: 105 (A) 20 (B) Hydrophytic Vegetation *(Explain)* Tree - Woody plants less than 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of size, and woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (In) tall. Woody vines - All woody vines greater than 3.28 ft in height. Column Total Cover *(Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 210 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (A) 2.0 (B) Prevalence Index = B/A = 2.0 Column Totals: 105 (F) 2.0 Column Total Cover					UPL species 0 x 5 = 0
Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index = S.0 ** X 1 - Rapid Test for Hydrophytic Vegetation Y - A - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation ** (Explain) Problematic Hydrophytic Vegetation ** (Factor of Hydrophytic Vegetation ** (Factor	Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 9 - Total Cover 10 - Total Cover 11 - Mydrophytic Vegetation Indicators: 12 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation on Present? Yes X No	Prevalence Index = B/A = 2.0 Prevalence Index = B/A = 2.0 Prevalence Index = B/A = 2.0	Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 7 - SAsclepias incarnata / Swamp milkweed 5 - No - FACW 9 - Total Cover 10 - Total Cover 11 - Mydrophytic Vegetation Indicators: 12 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation on Present? Yes X No					
Total Cover Herb Stratum (Plot size:5)	Herb Stratum (Plot size:	Herb Stratum (Plot size:5	Herb Stratum (Plot size:					` , ` ,
Herb Stratum (Plot size:5) Thylarias arundinacea / Reed canarygrass, Reed canarygrass Town Yes FACW X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° X 4 - Morphological Adaptations (Provide supporting Problematic Index Problematic Index Y 1 - Problematic Index Y	Part Policy Pol	Note Total Cover Total C	Part Policy Pol	6				Prevalence index = B/A - 2.0
Herb Stratum (Plot size:5) Thylarias arundinacea / Reed canarygrass, Reed canarygrass Town Yes FACW X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° X 4 - Morphological Adaptations (Provide supporting Problematic Index Problematic Index Y 1 - Problematic Index Y	Part Policy Pol	Note Total Cover Total C	Part Policy Pol	7.				Under the Manadation Indicators
Herb Stratum Plot size: 5	Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)			= Total Cov	/er	
1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 2. Carex intumescens / Greater bladder sedge 3. Impatiens capensis / Spotted jewelweed 4. Eupatorium perfoliatum / Common boneset 5. Asclepias incarnata / Swamp milkweed 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 7. 8	1. Phalaris arundinacea / Reed canarygrass, Reed canary grass 70 Yes FACW 2. Carex intumescens / Greater bladder sedge 10 No FACW 3. Impatiens capensis / Spotted jewelweed 10 No FACW 4. Eupatorium perfoliatum / Common boneset 5 No FACW 5. Asclepias incarnata / Swamp milkweed 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	1. Phalaris arundinacea / Reed canarygrass, Reed canary grass 70 Yes FACW 2. Carex intumescens / Greater bladder sedge 10 No FACW 3. Impatiens capensis / Spotted jewelweed 10 No FACW 4. Eupatorium perfoliatum / Common boneset 5 No FACW 5. Asclepias incarnata / Swamp milkweed 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8. 9.	1. Phalaris arundinacea / Reed canarygrass, Reed canary grass 70 Yes FACW 2. Carex intumescens / Greater bladder sedge 10 No FACW 3. Impatiens capensis / Spotted jewelweed 10 No FACW 4. Eupatorium perfoliatum / Common boneset 5 No FACW 5. Asclepias incarnata / Swamp milkweed 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	Herb Stratum (Plot size: 5)		_		1 —
2. Carex intumescens / Greater bladder sedge 3. Impatiens capensis / Spotted jewelweed 4. Eupatorium perfoliatum / Common boneset 5. No FACW 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 7. 8. 9. 10. 11. 12. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	2. Carex intumescens / Greater bladder sedge 3. Impatiens capensis / Spotted jewelweed 4. Eupatorium perfoliatum / Common boneset 5. No FACW 5. Asclepias incarnata / Swamp milkweed 5. No OBL 7.	2. Carex intumescens / Greater bladder sedge 3. Impatiens capensis / Spotted jewelweed 4. Eupatorium perfoliatum / Common boneset 5. No FACW 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 7.	2. Carex intumescens / Greater bladder sedge 3. Impatiens capensis / Spotted jewelweed 4. Eupatorium perfoliatum / Common boneset 5. No FACW 5. Asclepias incarnata / Swamp milkweed 5. No OBL 7.		70	Vec	EAC\M	X 2 - Dominance Test is >50%
2. Carex intumescens / Greater biadoer sedge 10 No FACW 1. Impatiens capensis / Spotted jewelweed 10 No FACW 1. Eupatorium perfoliatum / Common boneset 5 No FACW 1. Asclepias incarnata / Swamp milkweed 5 No OBL 1. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FACW 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 1. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 1. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 1. Woody vines - All woody vines greater than 3.28 ft in height. 1. Woody vines greater than 3.28 ft in height. 1. Woody vines greater than 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft (1 m) tall. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28 ft in height. 1. Wigney time statement or equal to 3.28	2. Carex inturnescens? Greater bladder sedge 10 No FACW	2. Carex intumescens? Greater bladder sedge 10 No FACW 4 - Morphological Adaptations (Provide supporting Maptiens capensis / Spotted jewelweed 10 No FACW 5 No OBL 6 Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7 No FACW 9	2. Carex inturnescens? Greater bladder sedge 10 No FACW					X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed 10	S. Impatiens capensis / Spotted jewelweed 10 No FACW Eupatorium perfoliatum / Common boneset 5 No OBL	Section Sect	S. Impatiens capensis / Spotted jewelweed 10 No FACW Eupatorium perfoliatum / Common boneset 5 No OBL					
4. Eupatonum pertoilatum / Common boneset 5. Asclepias incarnata / Swamp milkweed 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 7. 8. 9. 10. 11. 12. 12. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	4. Eupatonum perrolatum / Common boneset 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8.	4. Eupatonum perrolatum / Common boneset 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8.	4. Eupatonum perrolatum / Common boneset 5 No OBL 6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8.	3. Impatiens capensis / Spotted jewelweed	10	No	FACW	1 -
6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	4. Eupatorium perfoliatum / Common boneset	5	No	FACW	Problematic Hydrophytic vegetation (Explain)
6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7. 8.	6. Eutrochium purpureum / Sweet-scented joe-pye-weed 5 No FAC 7.	5. Asclepias incarnata / Swamp milkweed	5	No	OBL	
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8. 9.	8. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 12. Woody vines - All woody vines greater than 3.28 ft in height. 13. O	8	8. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 12. Woody vines - All woody vines greater than 3.28 ft in height. 13. O					be present, unless disturbed or problematic.
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9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	9.	9. 10. 11. 12. 10. 105 = Total Cover Woody Vine Stratum (Plot size:	9. 10. 11. 12. Sapling/shrub - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 10 = Total Cover Hydrophytic Vegetation Present? Yes X No	8				Definitions of Vegetation Strata
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Woody Vine Stratum (Plot size: 30) 1.	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	12.	405			
1	1	1	1		105	_ = lotal Cov	er	greater than or equal to 3.28 π (1 m) tall.
2	2	2	2	Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
2	2	2	2	1			_	size, and woody plants less than 3.28 ft tall.
3	3	3	3	2				Woody vines - All woody vines greater than 3 28 ft in
4. O = Total Cover Hydrophytic Vegetation	4	4	4	3		_		
0 = Total Cover Hydrophytic Vegetation		= Total Cover	0 = Total Cover	J				neight.
Vegetation	Vegetation Present? Yes X No	Vegetation Present? Yes X No	Vegetation Present? Yes X No	4				
	Present? Yes X No	Present? Yes X No	Present? YesX No		0	_ = Total Cov	er	
Present? Yes X No								Vegetation
								Present? Yes X No
	Pemarks: /Evolain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					

SOIL Sampling Point: 046-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features % Loc2 (inches) Color (moist) Color (moist) Type¹ Texture Remarks 10YR 2/1 100 0-18 Mucky clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: X Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) ___ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes X No Remarks:

Project/Site:	19020 - South Ripley	City/Co	ounty: Chaut	auqua County	Sampling Date:	07/15/2020
Applicant/Owner:	' '	ConnectGen LLC	,	State: New York		046-2U
Investigator(s):	Matt Spadoni & Sam Pa		ı, Township, Range:	_	wn of Ripley	
Landform (hillslope, terrace, o			cave, convex, none):			%): 3-6
Subregion (LRR or MLRA):				ong: -79.7113682		·
Soil Map Unit Name:		ngford silt loam, 3-8% slope		NWI classification		10.12.00
Are climatic / hydrologic cond				(If no, explain in Remark		
, ,		significantly disturb		mal Circumstances" prese		No
		naturally problemat		d, explain any answers in		110
				•	•	
SUMMARY OF FINDIN	iGS - Attach site ma	p snowing sampling	point locations, tra	ansects, important	reatures, etc.	
Hydrophytic Vegetation Pre	esent? Yes		Is the Sampled Are	a		
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX	
Wetland Hydrology Presen	it? Yes	NoX	If yes, optional Wetla	and Site ID:		
Domarko: (Evaloin alternat	ivo procedures bere er in s	a congreto report \				
Remarks: (Explain alternat	ive procedures here or in a	a separate report.)				
HYDROLOGY						
Wetland Hydrology Indic	ators:					
Primary Indicators (minimu		all that apply)		Secondary Indica	ators (minimum of tw	o required)
Surface Water (A1)	0. 00 .04404, 000	Water-Stained Leaves	s (R9)		l Cracks (B6)	<u> </u>
High Water Table (A2))	Aquatic Fauna (B13)	(20)		atterns (B10)	
Saturation (A3)	,	Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Water Table (C2)	
Sediment Deposits (B	2)		es on Living Roots (C3)	Crayfish Bu		
	02)					ron. (CO)
Drift Deposits (B3)	1\	Presence of Reduced	` '	· 	/isible on Aerial Imag	
Algal Mat or Crust (B4	+)	Recent Iron Reduction	i in Tilled Solls (Co)	Sturited or s	Stressed Plants (D1)	
		TI-!- M!- Of (O	7\		D!# (DO)	
Iron Deposits (B5)	A : 11 (D7)	Thin Muck Surface (C	·		Position (D2)	
Iron Deposits (B5) Inundation Visible on		Thin Muck Surface (C Other (Explain in Rem	·	Shallow Aqu	uitard (D3)	
Iron Deposits (B5)			·	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on			·	Shallow Aqu	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C			·	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	concave Surface (B8)	Other (Explain in Rem	·	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present?	Yes No _	Other (Explain in Rem X Depth (inches):	·	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present?	Yes No	Other (Explain in Rem X Depth (inches): X Depth (inches):	narks)	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No. Y
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No _	Other (Explain in Rem X Depth (inches):	narks)	Shallow Aqu Microtopogr	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present?	Yes No	Other (Explain in Rem X Depth (inches): X Depth (inches):	narks)	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No No Yes No No Yes No	Other (Explain in Rem X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
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Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
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Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (see	Yes No No Yes No No Yes No	X Depth (inches): X Depth (inches): X Depth (inches):	wetlar	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 046-2U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Prunus serotina / Black cherry	25	Yes	FACU	Total Number of Dominant
2. Picea rubens / Red spruce	25	Yes	FACU	Species Across All Strata: 4 (B)
3. Acer saccharum / Sugar maple	25	Yes	FACU	
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7.				Prevalence Index worksheet:
	75	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	10	Yes	FACU	FACW species 0 x 2 = 0
2		_		FAC species 0 x 3 = 0
3		_		FACU species 85 x 4 = 340
4				UPL species 0 x 5 = 0
5	_			Column Totals: <u>85</u> (A) <u>340</u> (B)
6	_		_,	Prevalence Index = B/A = 4.0
7		_		Hydrophytic Vegetation Indicators:
	10	= Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				2 - Dominance Test is >50%
1	_			3 - Prevalence Index ≤3.0¹
2	_		_,	4 - Morphological Adaptations (Provide supporting
3			_,	Problematic Hydrophytic Vegetation¹ (Explain)
4	_		_,	Problematic Hydrophytic Vegetation (Explain)
5	_		_,	¹ Indicators of hydric soil and wetland hydrology must
6	_		_,	be present, unless disturbed or problematic.
7				be present, unless disturbed of problematic.
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	0	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 046-2U

Depth	ription: (Describe to th Matrix	e սեհա ա <u>6</u> 6		Features	or committee	ausenc	e or muicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type¹ L	_OC²	Texture	Remarks
0-6	10YR 3/1	100	` '				Loam	
6-18	10YR 5/4	100					Sandy	
0.0			-					
								
								
	-							
Type: C=Cor	ncentration, D=Depletion	n, RM=Reduc	ed Matrix, MS=Mask	ed Sand Gra	ains.		² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	r Problematic Hydric Soils³:
Histosol			Polyvalue Below	Surface (SG	() (PP P MI	2Δ 1 <i>1</i> 0¤		ck (A10) (LRR K, L, MLRA 149B)
		-						
	pipedon (A2)	-	Thin Dark Surface			3D)		airie Redox (A16) (LRR K, L, R)
Black Hi		-	Loamy Mucky M		LKK K, L)			cky Peat or Peat (S3) (LRR K, L, R)
, ,	n Sulfide (A4)	-	Loamy Gleyed M				_	face (S7) (LRR K, L)
	d Layers (A5)	-	Depleted Matrix					e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A	.11)	Redox Dark Surf					k Surface (S9) (LRR K, L)
	ark Surface (A12)	-	Depleted Dark S					ganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)	-	Redox Depression	ons (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	Sleyed Matrix (S4)						Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	ledox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Sha	illow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other (Ex	xplain in Remarks)
								
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be pro	esent, unles	s disturbed or p	oroblema	itic.	
Restrictive L	.ayer (if observed):							
Type:								
	ches):						Hydric Soil Pres	ent? Yes No X
-1 (
Remarks:								

Project/Site:	19020 - South Ripley	City/Cou	ınty: Ch	nautauqua County	Sampling Date: 07/15/2020
Applicant/Owner:		nnectGen LLC	,	State: New York	
Investigator(s):	Matt Spadoni & Sam Parke		Township, Range:		vn of Ripley
Landform (hillslope, terrace, et			cave, convex, none		. ,
					· · · ·
Subregion (LRR or MLRA):			.1808768	Long: -79.7113672	
Soil Map Unit Name:		ord silt loam, 3-8% slopes		NWI classification	
Are climatic / hydrologic condit	• • • • • • • • • • • • • • • • • • • •			(If no, explain in Remarks	,
	, or Hydrology			Normal Circumstances" prese	
	, or Hydrology			eded, explain any answers in	·
SUMMARY OF FINDING	SS - Attach site map s	howing sampling p	oint locations	, transects, important t	features, etc.
Hydrophytic Vegetation Pres	ent? Yes X	No	Is the Sampled	Area	
Hydric Soil Present?	Yes X	No	within a Wetlan		No
Wetland Hydrology Present?		No No	If yes, optional V		Wetland 46
vveilana riyarology i resem:	165 <u>X</u>		ii yes, optional v	veliana olie ib.	vvetaria 40
Remarks: (Explain alternativ	e procedures here or in a se	parate report.)			
HYDROLOGY					
Wetland Hydrology Indicat	ors:				
Primary Indicators (minimum	of one required; check all the	at apply)		Secondary Indica	tors (minimum of two required)
Surface Water (A1)	Х	Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
High Water Table (A2)	_	- Aquatic Fauna (B13)		X Drainage Pa	atterns (B10)
X Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	
Water Marks (B1)		Hydrogen Sulfide Odor	·(C1)		Water Table (C2)
Sediment Deposits (B2)		Oxidized Rhizospheres			· ·
Drift Deposits (B3)		Presence of Reduced I	• .	· — ·	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` '		Stressed Plants (D1)
1 - ·	_	_			` '
Iron Deposits (B5)		_ Thin Muck Surface (C7	•		Position (D2)
Inundation Visible on A	-	Other (Explain in Rema	ırks)	Shallow Aqu	
Sparsely Vegetated Co	ncave Surface (B8)			 · · ·	aphic Relief (D4)
				X FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	Yes No X	Donth (inches):			
		_ ' ` '	10		
Water Table Present?	Yes X No No	Depth (inches):	16	-41	V V N-
Saturation Present?	Yes X No	Depth (inches):	8 We	etland Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)					
Describe Recorded Data (str	ream gauge monitoring well	aerial photos, previous in	reportions) if avail-	ahla:	
Describe Recorded Data (sti	eam gauge, monitoring wen	aeriai priotos, previous in	ispections), ii avaiid	able.	
Remarks:					
T to manier					

VEGETATION - Use scientific names of plants.				Sampling Point: 046-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Fraxinus pennsylvanica / Green ash	35	Yes	FACW	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	20	Yes	FACU	Species Across All Strata: 6 (B)
3. Betula alleghaniensis / Yellow birch	20	Yes	FAC	
4. Carpinus caroliniana / American hornbeam	15	No	FAC	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 83.3 (A/B)
6			<u> </u>	
7	_,	_		Prevalence Index worksheet:
	90	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Carpinus caroliniana / American hornbeam	10	Yes	FAC	FACW species 140 x 2 = 280
2.				FAC species 45 x 3 = 135
3				FACU species 20 x 4 = 80 UPL species 0 x 5 = 0
4				
5	-	-		Column Totals: 205 (A) 495 (B) Prevalence Index = B/A = 2.41
6		-		Prevalence Index = B/A = 2.41
7			_	Hydrophytic Vegetation Indicators:
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Carex arctata / Drooping woodland sedge	50	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Onoclea sensibilis / Sensitive fern	35	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Impatiens capensis / Spotted jewelweed	20	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4		-		
5		-	_	¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7			-	
8				Definitions of Vegetation Strata
9				
10.		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		= Total Cov	er	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)	100	_ = 10(a) 000	Ci	
				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2			- -	
3	- ·	<u> </u>	-	Woody vines - All woody vines greater than 3.28 ft in height.
4.				noight.
· · ·	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 046-2W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	3
0-8	10YR 3/1	100					Clayey loam			
8-18	10YR 4/2	85	10YR 6/8	15	С	М	Clay			
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M=	=Matrix.
Hydric Soil I	ndicators						Indicators	for Brobl	ematic Hydric	o Coilo³:
-			Dolynyalua Palay	u Curfoco (C	0) // DD D	MI DA 440			-	
Histosol			Polyvalue Belov) (LRR K, L, I	•
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (L	
	istic (A3)		Loamy Mucky N		(LKK K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed						7) (LRR K, L	-
	d Layers (A5)		X Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	411)	Redox Dark Su						ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark					•	•	2) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									144A, 145, 149B)
	Redox (S5)								erial (F21)	E40)
	Matrix (S6)								ark Surface (TI	F12)
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Other	(Explain ii	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	ss disturbed	or problem	natic.			
						·				
	_ayer (if observed):									
Type:	1 \							10	., .,	
Depth (in	iches):						Hydric Soil Pr	esent?	Yes X	No
Remarks:										

Project/Site:	19020 - S	South Ripley	Ci	ty/County:	Chautauqua (County	Sampling Date:	07/15/2020
Applicant/Owner:			nectGen LLC	, , 		ate: New York		046-3U
Investigator(s):		oni & Sam Parker		ection, Township, R			vn of Ripley	
Landform (hillslope, terrac				f (concave, convex		Convex		(%): 2-5
Subregion (LRR or MLRA)			Lat:		Long:	-79.7079468		` '
Soil Map Unit Name:			silt loam, 3-8% slo		20119	NWI classification		10.00
Are climatic / hydrologic co			· · · · · · · · · · · · · · · · · · ·		(If no	explain in Remark		
, ,			•	sturbed?		cumstances" prese		. No
		or Hydrology				ain any answers in		110
		· · · · · · · · · · · · · · · · · · ·			•	•	•	
SUMMARY OF FIND	INGS - Attac	n site map sr	iowing sampi	ing point locat	ions, transec	ts, important	eatures, etc.	
Hydrophytic Vegetation	Present?	Yes		Is the Sar	npled Area			
Hydric Soil Present?		Yes	NoX	within a V	Vetland?	Yes	NoX	<u>-</u>
Wetland Hydrology Pres	sent?	Yes	NoX	If yes, opti	onal Wetland Site	e ID:		
Remarks: (Explain alter	native procedure:	s here or in a sepa	arate report.)					
HYDROLOGY								
Wetland Hydrology Ind								
Primary Indicators (mini		ired; check all tha	,	(20)	<u></u>		tors (minimum of ty	vo requirea)
Surface Water (A1)	•	_	Water-Stained Lo	` ,			Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (E			Drainage Pa		
Saturation (A3)			Marl Deposits (B	•		Moss Trim L	, ,	
Water Marks (B1)			Hydrogen Sulfide	e Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhizos	pheres on Living Ro	oots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)			Presence of Red	uced Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust	(B4)		Recent Iron Red	uction in Tilled Soils	s (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)			Thin Muck Surfa	ce (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery	y (B7)	Other (Explain in	Remarks)		Shallow Aqu	itard (D3)	
Sparsely Vegetated	d Concave Surfac	ce (B8)				Microtopogra	aphic Relief (D4)	
						FAC-Neutral	Test (D5)	
Field Observations:								
Surface Water Present?	Yes _		_ ' ' '	<u> </u>				
Water Table Present?	Yes _	NoX	Depth (inches):					
Saturation Present?	Yes _	NoX	_ Depth (inches):		Wetland Hyd	rology Present?	Yes	No <u>X</u>
(includes capillary fringe)							
Describe Recorded Data	a (stream gauge,	monitoring well, a	aerial photos, prev	ious inspections), i	f available:			
Damada								
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:046-3U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,,
1. Pinus strobus / Eastern white pine	20	Yes	FACU	Total Number of Dominant
2. Crataegus / Hawthorn	15	Yes	FACU	Species Across All Strata: 7 (B)
3. Hamamelis virginiana / American witch-hazel	15	Yes	FACU	(=)
4.	_	_		Percent of Dominant Species
5.	_	_		That Are OBL, FACW, or FAC: 0.0 (A/B)
6		-		11100111001111011110111101111011110111101111
7.				Prevalence Index worksheet:
	50	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ 10101 001	Ci	OBL species 0 $x = 1 = 0$
1. Rubus allegheniensis / Allegheny blackberry	20	Yes	FACU	FACW species 0 x 2 = 0
Hamamelis virginiana / American witch-hazel	10	Yes	FACU	FAC species 10 x 3 = 30
			FACU	FACU species 145 x 4 = 580
3.				UPL species 0 x 5 = 0
4			_	Column Totals: 155 (A) 610 (B)
5				Prevalence Index = B/A = 3.94
6				Prevalence index = B/A =
7				Hydrophytic Vegetation Indicators:
	30	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	40	Yes	FACU	
2. Trifolium repens / White clover	15	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	4 - Morphological Adaptations (Provide supporting
4. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	10	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5.	_	_		l
6.		_		¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
				Definitions of Variation Ctuate
0				Definitions of Vegetation Strata
10.	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				
12	75	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Mandy Vina Chatum (Distains 20		_ = 10(a) C0v	ei	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
				.1
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 046-3U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features (inches) Color (moist) % Loc² Color (moist) Type¹ Texture Remarks 10YR 4/4 100 8-0 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: 8 Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Rock refusal at 8

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/15/2020
Applicant/Owner:	• •	ConnectGen LLC	· · · —	· · · · · · · · · · · · · · · · · · ·	tate: New York		046-3W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Townsh			vn of Ripley	
Landform (hillslope, terrace, e	•				Concave	. ,	(%): 0-5
Subregion (LRR or MLRA):				62 Long:			`
Soil Map Unit Name:		Erie silt loam, 3-8%			NWI classification	-	PSS
Are climatic / hydrologic condi		•	· '	No (If no			
	l, or Hydrology	•			rcumstances" prese	,	(No
	, or Hydrology				lain any answers in		
SUMMARY OF FINDING	· · · · · · · · · · · · · · · · · · ·				•	•	
		<u> </u>	· · · · · ·	· ·	cts, important	leatures, etc.	
Hydrophytic Vegetation Pre		X No		Sampled Area			
Hydric Soil Present?		X No		n a Wetland?	Yes X		=
Wetland Hydrology Present	? Yes	X No	_ If yes	optional Wetland Sit	te ID:	Wetland 46	
Remarks: (Explain alternati	ve procedures here or in s	senarate report)	· ·				
rtemarks. (Explain alternati	re procedures here or in a	soparate report.)					
HYDROLOGY							
Wetland Hydrology Indica	tors:						
Primary Indicators (minimur	n of one required; check a	all that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)		Water-Staine	d Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)		Aquatic Faun	a (B13)		X Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits	s (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Su	lfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2	2)	X Oxidized Rhiz	zospheres on Livir	g Roots (C3)	Crayfish Bu	rows (C8)	
Drift Deposits (B3)	,	X Presence of F	· ·	•		isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Reduction in Tilled			Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck Su		()	X Geomorphic	•	,
Inundation Visible on A	verial Imagery (B7)		n in Remarks)		Shallow Aqu		
Sparsely Vegetated Co			,			aphic Relief (D4)	
	(20)				X FAC-Neutra		
				1	_		
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	es):				
Water Table Present?	Yes No	X Depth (inch	es):				
Saturation Present?	Yes No	X Depth (inch	es):	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)							
				\			
Describe Recorded Data (s	ream gauge, monitoring v	vell, aerial photos, p	revious inspection	is), if available:			
Remarks:							
rtomarke.							

VEGETATION - Use scientific names of plants.				Sampling Point: 046-3W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1				Total Number of Dominant
2				Species Across All Strata: 5 (B)
3				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80.0 (A/B)
6				
7				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Viburnum dentatum var. dentatum / Southern arrowwood	25	Yes		FACW species 50 x 2 = 100
2. Salix / Willow	10	Yes	FACW	FAC species 70 x 3 = 210
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals:(A)(B)
6.				Prevalence Index = B/A = 2.58
7.				
	35	= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		-		1 - Rapid Test for Hydrophytic Vegetation
Eutrochium purpureum / Sweet-scented joe-pye-weed	50	Yes	FAC	X 2 - Dominance Test is >50%
Phalaris arundinacea / Reed canarygrass, Reed canary gras		Yes	FACW	X 3 - Prevalence Index ≤3.01
Onoclea sensibilis / Sensitive fern	20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Euthamia graminifolia / Flat-top goldentop	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	
6		_		¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7. 8.				
				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	110	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 046-3W

Depth	Matrix			k Features			ce of indicators	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 4/2	90	7.5YR 5/8	10	С	PL	Loamy clay			
8-18	5Y 3/1	85	7.5YR 5/8	15	С	PL	Clay			
Type: C=Cond	centration, D=Depletion	n, RM=Red	uced Matrix, MS=Masi	ked Sand Gr	ains.		-Locat	ion: PL=Poi	re Lining, M=Ma	trix.
lydric Soil In	dicators:						Indicators	for Probler	natic Hydric So	oils³:
Histosol (A1)		Polyvalue Belov	v Surface (S	3) (LRR R ,	MLRA 149	B) 2 cm l	Muck (A10)	(LRR K, L, MLI	RA 149B)
Histic Epi	pedon (A2)		Thin Dark Surfa					Prairie Red	ox (A16) (LRR	K, L, R)
Black His			Loamy Mucky M			•			or Peat (S3) (L	
	Sulfide (A4)		Loamy Gleyed N		. ,				(LRR K, L)	
	Layers (A5)		Depleted Matrix						Surface (S8) (L	RR K, L)
	Below Dark Surface (A	(11)	X Redox Dark Sur	face (F6)					e (S9) (LRR K,	· •
	k Surface (A12)	,	Depleted Dark S						Masses (F12)	
	ucky Mineral (S1)		Redox Depressi					•	ain Soils (F19) (
	eyed Matrix (S4)			,					6) (MLRA 144	
Sandy Re	• • • •							arent Mater		
	Matrix (S6)								k Surface (TF12)
	ace (S7) (LRR R, ML	RA 149B)						(Explain in		•
		•					_		·	
		and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Indicators of h	iyaropriyiic vegetation a									
Restrictive La	yer (if observed):									
	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	resent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No
Restrictive La Type: Depth (incl	yer (if observed):						Hydric Soil Pr	esent?	Yes X	No

Project/Site:	19020	- South Ripley		City/County:	·:	Chautauqua (County	Sampling Date:	07/15/2020
Applicant/Owner:			ectGen LLC	,			ate: New York		046-4U
Investigator(s):	Matt Spa	adoni & Sam Parker		Section, Tov	wnship, Rang			wn of Ripley	
Landform (hillslope, ter	•				e, convex, noi		Convex	Slope	e (%): 1-5
Subregion (LRR or MLI		RR R MLRA 139	Lat:	-	248008	Long:	-79.715722		` '
Soil Map Unit Name:	,		silt loam, 8-15				NWI classification	-	
Are climatic / hydrologic	c conditions on th			•	No	(If no,	explain in Remark		
Are Vegetation			•		_		cumstances" prese	•	X No
		, or Hydrology		oblematic?	(If	needed, expla	ain any answers in		
SUMMARY OF FI	_				-	-	-	•	
Hydrophytic Vegetati		Yes	No X		s the Sample		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?		Yes X	No X	_	within a Wetl		Yes	No X	
Wetland Hydrology F		Yes	No X	_		I Wetland Site			_
Trouding Try drology T				- "	- you, optiona				
Remarks: (Explain al	Iternative procedu	ures here or in a sepa	rate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
		equired; check all that	annly)				Secondary Indica	ators (minimum of t	two required)
Surface Water (2quired, oricon all triat	Water-Stained	I Leaves (R9))			l Cracks (B6)	wo required)
High Water Tab	` '	_	Aquatic Fauna		·)			atterns (B10)	
Saturation (A3)			Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Sulf		1)			Water Table (C2)	
Sediment Depo	,		Oxidized Rhize			(C3)	Crayfish Bu		
Drift Deposits (E			Presence of R	•	-	(00)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	-		Recent Iron Re			6)		Stressed Plants (D	
Iron Deposits (E		_	Thin Muck Sui			-,		Position (D2)	-,
	ole on Aerial Imag	uery (B7)	Other (Explain	, ,	3)		Shallow Aqu		
	ated Concave Sur				•			aphic Relief (D4)	
_ ` ` ` `							FAC-Neutra	l Test (D5)	
Field Observations		N. V	5 " " 1	,					
Surface Water Prese		s NoX							
Water Table Present		s NoX		·	—— I .				N. V
Saturation Present?		s NoX	Depth (inche	:s):	—— '	wetiand Hydi	rology Present?	Yes	No X
(includes capillary fri	nge)								
Describe Recorded [Data (stream gau	ge, monitoring well, a	erial photos, pr	evious inspe	ections), if ava	ailable:			
	, ,				,				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 046-4U	
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absoluto	Dominant	Indicator	·	
T 01 1 (DI 1 : 00)	Absolute	Dominant		That Are OBL, FACW, or FAC: 2 (A)	
Tree Stratum (Plot size:)	%Cover	Species?	Status		
Betula alleghaniensis / Yellow birch	30	Yes	<u>FAC</u>	Total Number of Dominant	
Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Species Across All Strata: 4 (B)	
3. Acer saccharum / Sugar maple	30	Yes	FACU		
4.				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)	()
6.					
7.				Prevalence Index worksheet:	
··-	90	= Total Cov	or	Total % Cover of: Multiply by:	
Capling/Chrub Ctratum (Diot aiza) 15		_ = 10tai 00v	Ci	OBL species 0 $x 1 = 0$	
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0	
1		_	- 	FAC species 40 x 3 = 120	
2					
3				FACU species 60 x 4 = 240	
4		_		UPL species 0 x 5 = 0	
5				Column Totals: 100 (A) 360 (B	i)
6.				Prevalence Index = B/A = 3.6	
7.		-			
···	0	= Total Cov		Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)		_ = 10(a) C0V	Ci	1 - Rapid Test for Hydrophytic Vegetation	
``	40		E4.0	2 - Dominance Test is >50%	
Dryopteris intermedia / Evergreen wood fern	10	Yes	FAC	3 - Prevalence Index ≤3.01	
2				4 - Morphological Adaptations (Provide supporting	
3		_		Problematic Hydrophytic Vegetation¹ (Explain)	
4				Problematic Hydrophytic vegetation (Explain)	
5.					
6.				¹ Indicators of hydric soil and wetland hydrology must	
7				be present, unless disturbed or problematic.	
					
8			 	Definitions of Vegetation Strata	
9					
10.		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at	
11				breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH and	
	10	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of	
1.				size, and woody plants less than 3.28 ft tall.	
2.	-	_			
2.	-			Woody vines - All woody vines greater than 3.28 ft in	
3				height.	
4		_			
	0	_ = Total Cov	er	Hydrophytic	
				Vegetation	
				Present? Yes No X	
Remarks: (Explain alternative procedures here or in a separate	report.)				

SOIL Sampling Point: 046-4U

Depth	Matrix		Redox	x Features			e of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10YR 3/1	100			· <u></u>		Loam			
4-18	10YR 4/2	95	10YR 6/8	5	С	PL	Loam			
				_	. <u> </u>					
				_	. <u> </u>					
				_	. -					
				_						
				_						
				_						
Type: C=Con	centration, D=Depletion	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=N	latrix.
lydric Soil In	idicators:						Indicators	for Proble	ematic Hydric	Soils³:
Histosol (Polyvalue Belov	w Surface (S	8) (LRR R,I	MLRA 149E) (LRR K, L, M	
	ipedon (A2)		Thin Dark Surfa						dox (A16) (LR	•
Black His			Loamy Mucky N			,			it or Peat (S3)	
	n Sulfide (A4)		Loamy Gleyed		,, _ /				7) (LRR K, L)	
	Layers (A5)		X Depleted Matrix					-	Surface (S8)	(IBBK I)
	Below Dark Surface (A	Δ11)	Redox Dark Su						ce (S9) (LRR F	
		~11 <i>)</i>	Depleted Dark Su							(LRR K, L, R)
	rk Surface (A12)							ū	, ,	
′	ucky Mineral (S1)		Redox Depress	ions (F8)						(MLRA 149B)
	leyed Matrix (S4)									4A, 145, 149B)
	edox (S5)							Parent Mate		10)
	Matrix (S6)								rk Surface (TF	12)
Dark Sur	face (S7) (LRR R, ML	.KA 149B)					Otne	r (Expiain ir	Remarks)	
		and wetland	d hydrology must be p	resent, unle	ss disturbed	or problema	atic.			
3Indicators of I	hydrophytic vegetation	and wouldn't								
Restrictive La	ayer (if observed):	and Worlding								
Restrictive La	ayer (if observed):	and wedant					Ukadaia Osil B		V V	N
Restrictive La	ayer (if observed):	and wouldn't					Hydric Soil P	resent?	Yes X	No
Restrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020 - South Ripley	City/Cou	untv: Chauta	augua County	Sampling Date: 07/15/2020
Applicant/Owner:		onnectGen LLC		State: New York	
· · · — — — — — — — — — — — — — — — — —	Matt Spadoni & Sam Park		, Township, Range:		vn of Ripley
Landform (hillslope, terrace, e			cave, convex, none):		. ,
Subregion (LRR or MLRA):	I DD D MI DA 120		.18250785 Lor		
				NWI classification	
Soil Map Unit Name:		ford silt loam, 8-15% slopes		(If no, explain in Remark	
Are climatic / hydrologic condi	• • •			· / I	,
	il, or Hydrology			nal Circumstances" prese	
· · · · · · · · · · · · · · · · · · ·	il, or Hydrology			d, explain any answers in	·
SUMMARY OF FINDING	GS - Attach site map	showing sampling p	oint locations, tra	insects, important	features, etc.
Hydrophytic Vegetation Pre	sent? Yes X	No	Is the Sampled Area	a	
Hydric Soil Present?	Yes X		within a Wetland?	Yes X	No
Wetland Hydrology Present	? Yes X		If yes, optional Wetlan		Wetland 46
				·	
Remarks: (Explain alternation	ve procedures here or in a s	eparate report.)			
HYDROLOGY					
Wetland Hydrology Indica					
	m of one required; check all				tors (minimum of two required)
Surface Water (A1)	-	X Water-Stained Leaves	(B9)		Cracks (B6)
High Water Table (A2)	=	Aquatic Fauna (B13)		X Drainage Pa	atterns (B10)
X Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		X Hydrogen Sulfide Odor	r (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2	2)	Oxidized Rhizospheres	s on Living Roots (C3)	Crayfish Bui	rows (C8)
Drift Deposits (B3)	_	Presence of Reduced	Iron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	·	Thin Muck Surface (C7	7)	X Geomorphic	Position (D2)
Inundation Visible on A	Aerial Imagery (B7)	Other (Explain in Rema	·	Shallow Aqu	
X Sparsely Vegetated Co	-	_ ` '	,		aphic Relief (D4)
				X FAC-Neutra	
				_	
Field Observations:					
Surface Water Present?	Yes No>	C Depth (inches):			
Water Table Present?	Yes No>	C Depth (inches):			
Saturation Present?	Yes X No	Depth (inches):	8 Wetland	d Hydrology Present?	Yes X No
(includes capillary fringe)					
Describe Recorded Data (s	tream gauge, monitoring we	II, aerial photos, previous in	nspections), if available:		
-					
Remarks:					

VEGETATION - Use scientific names of plants.				Sampling Point: 046-4W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Tsuga canadensis / Eastern hemlock	45	Yes	FACU	Total Number of Dominant
Fraxinus pennsylvanica / Green ash	25	Yes	FACW	Species Across All Strata: 5 (B)
Betula alleghaniensis / Yellow birch	20	No	FAC	Species Across Air Strata (B)
4. Acer rubrum / Red maple	10	No		Persont of Persinant Charles
			FAC	Percent of Dominant Species
5. Acer saccharum / Sugar maple	10	No	FACU	That Are OBL, FACW, or FAC: 80.0 (A/B)
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	110	_ = Total Cov	⁄er	OBL species 15 x 1 = 15
Sapling/Shrub Stratum (Plot size:)				
1.				FACW species 50 x 2 = 100
2.				FAC species 30 x 3 = 90
3.				FACU species 55 x 4 = 220
4				UPL species 0 x 5 = 0
5				Column Totals:150 (A)425 (B)
6.				Prevalence Index = B/A = 2.83
7.				
		= Total Cov	 /er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
Dryopteris carthusiana / Spinulose wood fern	15	Yes	FACW	X 2 - Dominance Test is >50%
Dryopiens carinusiana / Spinulose wood lem Ranunculus flabellaris / Water buttercup	15	Yes	OBL	X 3 - Prevalence Index ≤3.01
				4 - Morphological Adaptations (Provide supporting
3. Onoclea sensibilis / Sensitive fern	10	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4				_ , , , , , , , , , , , , , , , , , , ,
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, unless disturbed of problematio.
8				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	40	= Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				
-				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4				Hardwards 46-
	0	_ = Total Cov	er er	Hydrophytic
				Vegetation
				Present? Yes X No
				<u> </u>
Remarks: (Explain alternative procedures here or in a separa	te report.)			

SOIL Sampling Point: 046-4W

Depth	ription: (Describe to th Matrix			x Features	Je			,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 2/1	100		_			Mucky clay	_		
8-18	10YR 6/1	85	10YR 5/8	15	C	М	Clay			
				_						
	-									
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=N	Matrix.
Hydric Soil I									ematic Hydric	
Histosol	• •		Polyvalue Belov) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa			-			edox (A16) (LF	
	istic (A3)		Loamy Mucky N		(LRR K, L)				at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed					-	(LRR K, L)	
	d Layers (A5)		Depleted Matrix	` '					v Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Su						ce (S9) (LRR I	
	ark Surface (A12)		Depleted Dark					•	, ,	(LRR K, L, R)
	Aucky Mineral (S1)		Redox Depress	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									14A, 145, 149B)
	Redox (S5)								erial (F21)	
	l Matrix (S6)								ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
a										
Indicators of	hydrophytic vegetation	and wetland	nydrology must be p	resent, unies	ss disturbed	or problem	natic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Dl										
Remarks:										

Project/Site:	19020	- South Ripley		City/Coun	ntv:	Chautaugua (County	Sampling Date:	07/16/2020
Applicant/Owner:			nectGen LLC	,		•	ate: New York		046-5U
Investigator(s):	Matt Sc	oadoni & Joe Gallo		Section, T	Township, Rar	-		wn of Ripley	
Landform (hillslope, terrac			Local re		ive, convex, n		Convex	Slope	e (%): 3-5
Subregion (LRR or MLRA		RR R MLRA 139	Lat:	•	7384746	Long:	-79.707815		
Soil Map Unit Name:	′ ——		d silt loam 8-15				NWI classification		
Are climatic / hydrologic o	conditions on the			•	(No	(If no,	explain in Remark	s.)	
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		roblematic?	? (I	If needed, expla	ain any answers in		
SUMMARY OF FINE						-	-	•	
Hydrophytic Vegetation		Yes	No X		Is the Samp		<u> </u>		
Hydric Soil Present?	TT TC3CITE	Yes	_ NoX	-	within a We		Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	_		nal Wetland Site			_
- Violana Hydrology 1 To			_ 110 <u> </u>	_	, 00, 0000				
Remarks: (Explain alter	rnative procedu	res here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology In	dicators								
Primary Indicators (min		aquired: check all the	ut apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A1		quirea, cricek all trie	Water-Stained	d Leaves (F	R9)			l Cracks (B6)	two required)
High Water Table	,		Aquatic Faun	,	55)			atterns (B10)	
Saturation (A3)	(142)	_	Marl Deposits	, ,			Moss Trim I		
Water Marks (B1)		_	Hydrogen Sul		(C1)			Water Table (C2)	
Sediment Deposit			Oxidized Rhiz			ts (C3)	Crayfish Bu		
Drift Deposits (B3)		_	Presence of F	-	-	13 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Crust	•		Recent Iron R			(C6)		Stressed Plants (D	
Iron Deposits (B5)			Thin Muck Su		•	30)		Position (D2)	• ,
Inundation Visible		erv (B7)	Other (Explain	, ,			Shallow Aqu		
Sparsely Vegetate	-				-,			aphic Relief (D4)	
, ,		,					FAC-Neutra		
					<u> </u>				
Field Observations:									
Surface Water Present		8 NoX							
Water Table Present?		S NoX	_ ' '	· —				.,	
Saturation Present?	Yes	s NoX	_ Depth (inche	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	e)								
Describe Recorded Da	ta (stream gauc	ae. monitorina well.	aerial photos, p	revious ins	spections), if a	vailable:			
	(9	,			.,,,,				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:	046-5U
	 _	 _	 _	Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2	(A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status		``
1. Acer saccharum / Sugar maple	65	Yes	FACU	Total Number of Dominant	
2. Prunus serotina / Black cherry	10	No	FACU	Species Across All Strata: 6	(B)
3.					(=)
1				Percent of Dominant Species	
		-		That Are OBL, FACW, or FAC: 33.3	(A/B)
_				That Ale OBL, I AGW, OF I AG. 33.3	(A/B)
7				Prevalence Index worksheet:	
1.	75	= Total Cay		Total % Cover of: Multiply b	ov:
Opening (Objects Objects on AF		_ = Total Cov	eı	OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15)	00		E4.01.1	· — — — — — — — — — — — — — — — — — — —)
Rubus idaeus / Common red raspberry	30	Yes	FACU	FAC species 15 x 3 = 4	
2. Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	·	
3					
4				UPL species 0 x 5 = 0	
5					45 (B)
6				Prevalence Index = B/A = 3.89	
7.				Hadaaahada Vaastalaa ladisataa.	
	40	= Total Cov	er	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size:5)		_		1 - Rapid Test for Hydrophytic Vegetation	
1. Hackelia / Stickseed	10	Yes	FACU	2 - Dominance Test is >50%	
Dryopteris intermedia / Evergreen wood fern	10	Yes	FAC	3 - Prevalence Index ≤3.0¹	
Amphicarpaea bracteata / American hog-peanut	5	Yes	FAC	4 - Morphological Adaptations (Provide sup	porting
4				Problematic Hydrophytic Vegetation¹ (Expl	ain)
	-				
5.				¹ Indicators of hydric soil and wetland hydrology	must
6.				be present, unless disturbed or problematic.	
7.				1 /	
8	_			Definitions of Vegetation Strata	
9					
10				Tree - Woody plants 3 in. (7.6 cm) or more in di	ameter at
11				breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. D	BH and
	25	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	2
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, rega	ardless of
1.				size, and woody plants less than 3.28 ft tall.	1101000 01
2.	-				00 ft i=
3		-		Woody vines - All woody vines greater than 3.2 height.	28 π in
4.	_			neight.	
T	0	= Total Cov	or	Hydrophytic	
		_ = 10(a) COV	CI	Vegetation	
				Present? Yes NoX	<u> </u>
Remarks: (Explain alternative procedures here or in a separate	report)				
Remarks. (Explain alternative procedures here of in a separate	e report.)				

SOIL Sampling Point: 046-5U

Depth	Matrix		Redox	Features			e of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ Lo	C ²	Texture	Remarks	
0-5	10YR 3/2	100					Loam		
5-18	10YR 3/3	100					Loam		
				-					
				-					
									
ype: C=Con	centration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ced Sand Gra	ains.		²Location: F	L=Pore Lining, M=I	Matrix.
ydric Soil Ir				0 ((0)				roblematic Hydric	
_ Histosol	•		Polyvalue Below	-				(A10) (LRR K, L, N	•
	ipedon (A2)		Thin Dark Surfa			3)		e Redox (A16) (LF	
_ Black His			Loamy Mucky M		LRR K, L)			Peat or Peat (S3)	
_	n Sulfide (A4)		Loamy Gleyed N					e (S7) (LRR K, L)	
_	Layers (A5)		Depleted Matrix					elow Surface (S8)	
	Below Dark Surface (A11)	Redox Dark Sur					urface (S9) (LRR	
	rk Surface (A12)		Depleted Dark S					nese Masses (F12)	
	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont F	loodplain Soils (F19	9) (MLRA 149 B
_	leyed Matrix (S4)						Mesic Spoo	ic (TA6) (MLRA 1	44A, 145, 149E
_ Sandy R	edox (S5)						Red Parent	Material (F21)	
Stripped	Matrix (S6)						Very Shallo	w Dark Surface (TF	12)
Dark Sur	face (S7) (LRR R, ML	∟RA 149B)					Other (Expl	ain in Remarks)	
ndinatara af			hudrala au rauat ha ra		- diatuubad au au	م مر م ا ما م	4: ~		
TIGICALOIS OF	hydrophytic vegetation	and welland	Trydrology must be pr	resent, unies	s disturbed or pr	Julenia	uc.		
	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Presen	t? Yes	NoX_
emarks:									

Project/Site:	19020 - South Ripley	City/Co	ounty: Chautaud	qua County	Sampling Date: 07/16/2020
Applicant/Owner:		ConnectGen LLC	,	State: New York	
Investigator(s):	Matt Spadoni Joe Gal		n, Township, Range:		n of Ripley
Landform (hillslope, terrace, etc			ncave, convex, none):		1 7
Subregion (LRR or MLRA):			2.17388879 Long		· · · /
Soil Map Unit Name:			=g	NWI classificatio	
Are climatic / hydrologic conditi			X No (It	f no, explain in Remarks	
, ,	, or Hydrology	· -		l Circumstances" preser	•
Are Vegetation , Soil		naturally problema		explain any answers in	
SUMMARY OF FINDING				•	•
				sects, important i	eatures, etc.
Hydrophytic Vegetation Pres		X No	Is the Sampled Area		
Hydric Soil Present?		X No	within a Wetland?	Yes X	_
Wetland Hydrology Present?	Yes	X No	If yes, optional Wetland	d Site ID:	Wetland 46
Remarks: (Explain alternative	e procedures here or in a	separate report)	•		
	procedures note of in a				
LIV/DDOL GOV					
HYDROLOGY					
Wetland Hydrology Indicate	ors:				
Primary Indicators (minimum	of one required; check a	Il that apply)		Secondary Indica	tors (minimum of two required)
Surface Water (A1)		Water-Stained Leave	s (B9)	Surface Soil	
High Water Table (A2)		Aquatic Fauna (B13)		X Drainage Pa	tterns (B10)
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		X Oxidized Rhizosphere	es on Living Roots (C3)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Presence of Reduced	I Iron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reductio	n in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C	27)	Geomorphic	Position (D2)
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Ren	narks)	Shallow Aqu	itard (D3)
Sparsely Vegetated Cor	ncave Surface (B8)			Microtopogra	aphic Relief (D4)
				FAC-Neutral	Test (D5)
Field Observations					
Field Observations:	Van Na	V Donth (inches)			
Surface Water Present?	Yes No	X Depth (inches): X Depth (inches):			
Water Table Present?	Yes No	· · · _			V V N-
Saturation Present?	Yes No	X Depth (inches):	vvetiand	Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)					
Describe Recorded Data (str	eam gauge, monitoring w	vell, aerial photos, previous	inspections), if available:		
	gg-,g	у по	,,		
Remarks:					

				Sampling Point:046-5W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	65	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	15	No	FACW	Species Across All Strata: 3 (B)
3. Prunus serotina / Black cherry	5	No	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 33.3 (A/B)
6.				
7.				Prevalence Index worksheet:
	85	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
Rubus allegheniensis / Allegheny blackberry	5	Yes	FACU	FACW species 78 x 2 = 156
2.	_			FAC species 3 x 3 = 9
3.	_			FACU species 75 x 4 = 300
4.				UPL species 0 x 5 = 0
5.				Column Totals:156 (A)465 (B)
6.				Prevalence Index = B/A = 2.98
7.		-		
··-		= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ 10101 001	0.	1 - Rapid Test for Hydrophytic Vegetation
1. Polygonum virginianum / Jumpseed	45	Yes	FACW	2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	10	No	FACW	X 3 - Prevalence Index ≤3.0¹
Bidens frondosa / Sticktight		No	FACW	4 - Morphological Adaptations (Provide supporting
4. Euthamia graminifolia / Flat-top goldentop	3	No No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
			FACW	
5. Eupatorium perfoliatum / Common boneset		No	FACW	¹Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7		_		
8		_		Definitions of Vegetation Strata
9.				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	66	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4		_		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 046-5W

Depth	ription: (Describe to the Matrix			c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10 YR 2/1	90	5YR 4/6	10	С	PL	Loamy clay			
8-18	10YR 3/2	90	10YR 5/8	10	D	М	Loamy clay			
Type: C=Co	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=F	ore Lining, M=N	//atrix.
ludeia Cail I	undinataun.						lu di a ata u	- for Drobl	anatia Hadwia	Caila3.
lydric Soil I				0 ((0)	o)				ematic Hydric	
Histosol	` '		Polyvalue Belov) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LR	
	istic (A3)		Loamy Mucky N		(LKK K, L)				at or Peat (S3)	(LKK K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	(57) (LRR K, L)	(1 DD 1/ 1)
	d Layers (A5)	A 44)	X Depleted Matrix						v Surface (S8)	
	d Below Dark Surface (A	411)	X Redox Dark Sur						ce (S9) (LRR F	
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 143, 149D)
	Redox (S5)								erial (F21)	10)
	Matrix (S6)	DA 440D)							ark Surface (TF1	12)
Dark Su	ırface (S7) (LRR R, ML	.KA 149D)					Other	i (⊏xpiaiii i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problem	natic.			
						·				
	_ayer (if observed):									
Type:									., .,	
Depth (in	iches):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020 - South	h Ripley	City/0	County:	Chautauqua (County	Sampling Date:	08/20/2020
Applicant/Owner:		Conn	ectGen LLC		•	ate: New York		046-6W
Investigator(s):	JK, S		Secti	on, Township, Ra			vn of Ripley	
Landform (hillslope, terrac	ce, etc):	Lowland		oncave, convex,		Concave	Slope	(%): 0-2
Subregion (LRR or MLRA		MLRA 139		42.18279519	Long:	-79.725527		· ·
Soil Map Unit Name:			Erie silt loam			NWI classification		O1/4E
Are climatic / hydrologic c		typical for this t	time of year? Yes	X No	(If no,	– explain in Remark	s.)	
, ,	, Soil, or Hy		•		Are "Normal Cire	cumstances" prese	ent? Yes >	(No
	, Soil , or Hy					ain any answers in		
SUMMARY OF FINE					•	•	•	
Hydrophytic Vegetation		Yes X		Is the Sam	•	,		
Hydric Soil Present?		Yes X	No	within a W	•	Voc. V	No	
1 *			No			Yes X	No 046-6W PFO	_
Wetland Hydrology Pre	Sent?	Yes X		ii yes, opiid	onal Wetland Site		046-6W PFO	
Remarks: (Explain alter	native procedures he	ere or in a sepa	rate report.)					
	•	•						
HYDROLOGY								
Wetland Hydrology In								
Primary Indicators (min			11 27	(0.0)			ators (minimum of t	wo required)
Surface Water (A1	•	<u>X</u>	Water-Stained Leav	` '			Cracks (B6)	
High Water Table ((A2)	_	Aquatic Fauna (B13				atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1)	(==)	_	Hydrogen Sulfide O				Water Table (C2)	
Sediment Deposits		_	Oxidized Rhizosphe	-	ots (C3)	Crayfish Bu		(==)
Drift Deposits (B3)			Presence of Reduce	` '			isible on Aerial Ima	
Algal Mat or Crust			Recent Iron Reduct		(C6)		Stressed Plants (D1)
Iron Deposits (B5)			Thin Muck Surface				Position (D2)	
	on Aerial Imagery (B7		Other (Explain in Re	emarks)		Shallow Aqu	` ,	
Sparsely Vegetate	d Concave Surface (E	B8)					aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Present	? Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X	· · · · · · · · -					
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hvd	rology Present?	Yes X	No
(includes capillary fringe					,			
	,							
Describe Recorded Dat	a (stream gauge, mo	nitoring well, a	erial photos, previou	s inspections), if	available:			
Domonico								
Remarks:								
1								

VEGETATION - Use scientific names of plants.				Sampling Point: 046-6W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	40	Yes	FAC	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	40	Yes	FACW	Species Across All Strata: 7 (B)
3.				
4.				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 57.1 (A/B)
6.				
7				Prevalence Index worksheet:
	80	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 30 x 1 = 30
1. Rosa multiflora / Multiflora rose, Multiflora rosa	15	Yes	FACU	FACW species 70 x 2 = 140
2. Fagus grandifolia / American beech	10	Yes	FACU	FAC species 40 x 3 = 120
3		_		FACU species 25 x 4 = 100
4				UPL species 0 x 5 = 0
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 2.36
7.				Hudroub, die Vosetetien Indicatore.
	25	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
Carex intumescens / Greater bladder sedge	30	Yes	FACW	X 2 - Dominance Test is >50%
2. Lycopus americanus / Bugleweed	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Glyceria / Mannagrass	20	Yes		4 - Morphological Adaptations (Provide supporting
4.		-	-	Problematic Hydrophytic Vegetation¹ (Explain)
5.		-	-	
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation Strata
10.				Tree Mondy plants 2 in (7.6 cm) or more in diameter at
11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.		-		Sapling/shrub - Woody plants less than 3 in. DBH and
	80	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)		_		
4				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2			<u> </u>	
3			-	Woody vines - All woody vines greater than 3.28 ft in height.
4.			-	neight.
		= Total Cov	er	Hydrophytic
		_ 10101 001	Ci	Vegetation
				Present? Yes X No
				1163 <u>X</u> 140
Remarks: (Explain alternative procedures here or in a separa	te report.)			
(,			

SOIL Sampling Point: 046-6W

Depth	ription: (Describe to t Matrix		Redox	x Features				5 .,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-2	5y 2.5/1	100	, ,				Loam muck	-	
2-10	10yr 4/2	70	7.5yr 4/6	30	С	М	Clay loam		
10-18	2.5y 6/1	65	7.5yr 4/6	35	С	М	Clay loam		
Type: C=Cor	ncentration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=Pore Lining, M=Matrix.	
lydric Soil I	ndicators:						Indicators	s for Problematic Hydric Soils ³	<u> </u>
X Histosol			Polyvalue Belov	v Surface (S	3) (LRR R .	MLRA 149		Muck (A10) (LRR K, L, MLRA 1	
	ipedon (A2)		Thin Dark Surfa					st Prairie Redox (A16) (LRR K, I	-
Black Hi			Loamy Mucky N					Mucky Peat or Peat (S3) (LRR	
	n Sulfide (A4)		Loamy Gleyed I		,, - /			Surface (S7) (LRR K, L)	, -, ·· ,
	Layers (A5)		X Depleted Matrix					value Below Surface (S8) (LRR	K. L)
	Below Dark Surface ((A11)	Redox Dark Sui					Dark Surface (S9) (LRR K, L)	,,
	rk Surface (A12)	()	Depleted Dark S					Manganese Masses (F12) (LRF	R K. L. R)
	lucky Mineral (S1)		Redox Depress					mont Floodplain Soils (F19) (MLI	
	leyed Matrix (S4)			(- /				c Spodic (TA6) (MLRA 144A, 1	
	edox (S5)							Parent Material (F21)	, ,
	Matrix (S6)							Shallow Dark Surface (TF12)	
	face (S7) (LRR R, M	LRA 149B)						r (Explain in Remarks)	
							_		
Indicators of	hydrophytic vegetatior	n and wetland	hydrology must be p	resent, unles	s disturbed	or problen	natic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil P	Present? Yes X No	
Remarks:									

Project/Site:	19020 - South Ripley	City/Cou	ınty: Ch	autaugua County	Sampling Date:	07/16/2020
	Con	nectGen LLC	-	State: New York	Sampling Point:	047-1U
Investigator(s):	Matt Spadoni & Joe Gallo	Section,	Township, Range:	To	wn of Ripley	
Landform (hillslope, terrace, etc			cave, convex, none)	: Convex	Slope (%	%): 0-5
Subregion (LRR or MLRA):			.17764749	Long: -79.704972		NAD 83
Soil Map Unit Name:	Erie sil	loam 3-8 percent slopes	3	NWI classificati	on:	
Are climatic / hydrologic condition	ons on the site typical for this	s time of year? Yes	X No	(If no, explain in Remar	(S.)	
Are Vegetation X, Soil	X , or Hydrology	significantly disturbe	ed? Are "I	Normal Circumstances" pres	ent? Yes	No X
	, or Hydrology			eded, explain any answers ir	Remarks.)	
SUMMARY OF FINDING				transects, important	features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No X	Is the Sampled	Area	•	
Hydric Soil Present?	Yes		within a Wetlan		No X	
Wetland Hydrology Present?			If yes, optional W			
Remarks: (Explain alternative Cow pasture	procedures here or in a sep	parate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum	of one required; check all th	at apply)		Secondary Indic	ators (minimum of two	required)
Surface Water (A1)	•	Water-Stained Leaves	(B9)		il Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B13)		Drainage P	atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim	Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odor	· (C1)	Dry-Seasor	n Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizospheres	s on Living Roots (C	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		Presence of Reduced I	` '	Saturation	Visible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction			Stressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7	•		c Position (D2)	
Inundation Visible on Ae		Other (Explain in Rema	arks)	Shallow Aq		
Sparsely Vegetated Con	cave Surface (B8)			Microtopog FAC-Neutra	raphic Relief (D4)	
				FAC-Neulla	ai lest (D3)	
Field Observations:						
Surface Water Present?	Yes NoX	_ ' '				
Water Table Present?	Yes NoX	_ ' ` <i></i>				
Saturation Present?	Yes NoX_	Depth (inches):	We	tland Hydrology Present?	Yes	No <u>X</u>
(includes capillary fringe)						
Describe Recorded Data (stre	eam gauge, monitoring well,	aerial photos, previous ir	nspections), if availa	able:		
,			. "			
Remarks:						

VEGETATION - Use scientific names of plants.				Sampling Point:047-1U
Tree Stratum (Plot size: 30)	Absolute %Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1		- -		Total Number of Dominant Species Across All Strata: (B)
4	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
7.				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:				OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0
3		_		FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B)
6				Prevalence Index = B/A = 4.0
7	0	= Total Cov	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
1. Trifolium repens / White clover	35	Yes	FACU	3 - Prevalence Index ≤3.0¹
Poa pratensis / Kentucky blue grass Plantago major / Common plantain	30 15	Yes No	FACU FACU	4 - Morphological Adaptations (Provide supporting
Trifolium pratense / Red clover	10	No No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5. Cirsium arvense / Canada thistle	10	No	FACU	
Bellis perennis / English lawn daisy, English daisy	10	No		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:30)	110	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
4.				neignt.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL

Sampling Point: 047-1U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	10YR 4/4	100					Sandy	
/pe: C=Cond	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		² Location:	: PL=Pore Lining, M=Matrix.
dric Soil Inc	dicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol (A			Polyvalue Belov	w Surface (S8) (LRR R,	MLRA 149E		ck (A10) (LRR K, L, MLRA 149B)
_	pedon (A2)		Thin Dark Surfa	•			· —	airie Redox (A16) (LRR K, L, R)
Black Hist			Loamy Mucky N			,		cky Peat or Peat (S3) (LRR K, L, R)
_	Sulfide (A4)		Loamy Gleyed		, - /			face (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix					Below Surface (S8) (LRR K, L)
_	Below Dark Surface (A	A 11)	Redox Dark Su	` '				Surface (S9) (LRR K, L)
	k Surface (A12)	,	Depleted Dark					ganese Masses (F12) (LRR K, L, R)
_	ucky Mineral (S1)		Redox Depress					Floodplain Soils (F19) (MLRA 149B
_	eyed Matrix (S4)		1100001 2001000	10110 (1 0)				odic (TA6) (MLRA 144A, 145, 149B
Sandy Re	• • • •							ent Material (F21)
_	Matrix (S6)							llow Dark Surface (TF12)
	face (S7) (LRR R, ML	RΔ 149R)						plain in Remarks)
_ Dark Guill	acc (or) (EIRICIA, ME						Other (Ex	plant in Kemarks)
ndicators of h	nydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.	
estrictive La	ver (if observed):							
	yer (if observed):							
Туре:	Rock	4					Hydric Soil Prese	ent? Yes No X
	Rock	4	_				Hydric Soil Prese	ent? Yes No _X
Type:	Rock hes):	4	_				Hydric Soil Prese	ent? Yes NoX
Type:	Rock	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No _X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No <u>X</u>
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No <u>X</u>
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No <u>X</u>
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X
Type:	Rock hes):	4					Hydric Soil Prese	ent? Yes No X

Project/Site:	19020 - South Ripley	City/County:	Chautauqua	County	Sampling Date:	07/16/2020
Applicant/Owner:	Connect(ate: New York		047-1W
Investigator(s):	Matt Spadoni, Joe Gallo		nship, Range:		vn of Ripley	
	e): Bowl-shaped depression			Concave		(%): 0-5
Subregion (LRR or MLRA):	· · · · · · · · · · · · · · · · · · ·		63151 Long:			• •
Soil Map Unit Name:		oam 3-8% slopes		NWI classification		I/POW
	ons on the site typical for this time		No (If no,	explain in Remark	s.)	
, ,	, or Hydrologys	· —		cumstances" prese	nt? Yes X	No
	, or Hydrology			ain any answers in		
	S - Attach site map show		•	•	•	
Hydrophytic Vegetation Prese	-		the Sampled Area	,		
Hydric Soil Present?			ithin a Wetland?	Voc. V	No	
Wetland Hydrology Present?			yes, optional Wetland Site	Yes X	No Wetland 47	=
Wettarid Hydrology Fresent?	ies <u>X</u> iv	·	yes, optional Wetland Sit	E ID	Welland 47	
Remarks: (Explain alternative	e procedures here or in a separate	report.)				
	·	. ,				
HYDROLOGY						
Wetland Hydrology Indicate						
-	of one required; check all that ap	•	_		ators (minimum of tv	vo required)
X Surface Water (A1)		ter-Stained Leaves (B9)			Cracks (B6)	
X High Water Table (A2)		uatic Fauna (B13)		Drainage Pa		
X Saturation (A3)		rl Deposits (B15)		Moss Trim L	,	
Water Marks (B1)		drogen Sulfide Odor (C1			Water Table (C2)	
Sediment Deposits (B2)		dized Rhizospheres on	· · ·	Crayfish Bur	` '	
Drift Deposits (B3)		sence of Reduced Iron (` '		isible on Aerial Ima	
Algal Mat or Crust (B4)		cent Iron Reduction in Ti	lled Soils (C6)		Stressed Plants (D1))
Iron Deposits (B5)		n Muck Surface (C7)		X Geomorphic		
X Inundation Visible on Ae		er (Explain in Remarks)		Shallow Aqu		
Sparsely Vegetated Cor	icave Surface (B8)				aphic Relief (D4)	
				X FAC-Neutra	Test (D5)	
Field Observations:						
Surface Water Present?	Yes X No D	epth (inches): 24				
Water Table Present?		epth (inches): 0				
Saturation Present?		epth (inches): 0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)				3,		
. , , ,						
Describe Recorded Data (stre	eam gauge, monitoring well, aeria	photos, previous inspec	ctions), if available:			
Demonto						
Remarks:						

/EGETATION - Use scientific names of plants.				Sampling Point:047-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
<u>Tree Stratum</u> (Plot size:30) 12.	%Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 2 (B)
3	-	_		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6		= Total Cov	 er	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	5	Yes	FACW	OBL species55 $x 1 =$ 55FACW species5 $x 2 =$ 10FAC species0 $x 3 =$ 0
3			-	FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column Totals: $60 \times 65 \times 65$ Recyclence Index = $8/4 = 0$
6. 7.				Prevalence Index = B/A = 1.08 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5) 1. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattai 2. Carex vulpinoidea / Fox sedge, Brown fox sedge	<u>50</u>	Yes No	OBL OBL	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
Carex vulphilotear Fox sedge, Brown lox sedge Alisma / Water plantain 4.	5	No	OBL	4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)	60	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	 er	Hydrophytic Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

 SOIL
 Sampling Point: ___047-1W

Depth	ription: (Describe to th Matrix			x Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 4/1	100		_			Mucky clay			
6-10	10YR 6/1	95	10YR 5/8	5	С	М	Clay			
					·					
						,				
					· ——					
				_						
					· ——			-		
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	rains.		²Loca	ation: PL=F	ore Lining, M=M	latrix.
lydric Soil I									ematic Hydric S	
Histosol			Polyvalue Belov) (LRR K, L, MI	•
Histic E	oipedon (A2)		Thin Dark Surfa			(149B)	Coas	t Prairie Re	edox (A16) (LR	R K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	/lineral (F1)	(LRR K, L)		5 cm	Mucky Pe	at or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly	/alue Belov	v Surface (S8) (LRR K, L)
X Deplete	d Below Dark Surface (A	\11)	Redox Dark Su	rface (F6)			Thin	Dark Surfa	ce (S9) (LRR K	ζ, L)
Thick Da	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedı	mont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (1	A6) (MLRA 14	4A, 145, 149B)
Sandy F	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Othe	r (Explain i	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
Postrictivo I	ayer (if observed):									
	• •	^								
Type:	Water tabl	l0					Uvdria Cail D	lrocont?	Voc V	No
Depth (in	cnes):	10					Hydric Soil F	resent?	Yes X	No
Remarks:										
	Water refusal at 10									

Project/Site:	19020 - South Ripley	City/Co	untv: Cha	autauqua County	Sampling Date:	07/16/2020
Applicant/Owner:		nectGen LLC		State: New York		048-1U
Investigator(s):	Matt Spadoni & Joe Gallo		, Township, Range:		wn of Ripley	
Landform (hillslope, terrace, etc			cave, convex, none):		Slope ('%): 0-5
Subregion (LRR or MLRA):			2.17764749	Long: -79.704972	· ·	· · ·
Soil Map Unit Name:		pam 3-8 percent slope		NWI classification	-	
Are climatic / hydrologic condition			X No	(If no, explain in Remark		
Are Vegetation X , Soil		· -		Normal Circumstances" prese		No X
<u> </u>	, or Hydrology			eded, explain any answers in		
SUMMARY OF FINDING				•	•	
				-	icatares, etc.	
Hydrophytic Vegetation Prese		No X	Is the Sampled A		N- V	
Hydric Soil Present?	Yes	No X	within a Wetland		NoX	
Wetland Hydrology Present?	Yes	No X	If yes, optional W	etiand Site ID:		
Remarks: (Explain alternative Cow pasture	procedures here or in a separ	rate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
	of one required; check all that	annly)		Secondary Indic	ators (minimum of tw	o required)
Surface Water (A1)	•	Water-Stained Leaves	(B9)		l Cracks (B6)	o required)
High Water Table (A2)		Aquatic Fauna (B13)	(20)		atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Odo	r (C1)		Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizosphere	` '			
Drift Deposits (B3)		Presence of Reduced		- -	/isible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction			Stressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C	, ,		Position (D2)	
Inundation Visible on Ae		Other (Explain in Rem	•	Shallow Aqu		
Sparsely Vegetated Con	- · · · ·		,	 ·	aphic Relief (D4)	
, ,	, ,			FAC-Neutra		
Field Observations						
Field Observations:	Van Na V	Donth (inches)				
Surface Water Present?	Yes NoX Yes No X	Depth (inches):				
Water Table Present? Saturation Present?		Depth (inches):	Wot	tland Hudralagy Present?	Voc	No. V
(includes capillary fringe)	Yes NoX	Depth (inches):	vve	tland Hydrology Present?	Yes	No <u>X</u>
(includes capillary inlige)						
Describe Recorded Data (stre	eam gauge, monitoring well, ae	erial photos, previous i	nspections), if availal	ble:		
Demontos						
Remarks:						

VEGETATION - Use scientific names of plants.				Sampling Point:048-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Tree Stratum (Plot size: 30)	%Cover		Status	That Are OBL, FACW, or FAC: 0 (A)
	70 COVE	Species?	Status	Total Number of Densire and
1.	_	-	- -	Total Number of Dominant
2				Species Across All Strata: 2 (B)
3.		_		
4	_			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6	_			Prevalence Index worksheet:
7		_		
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3	_	_		FACU species 100 x 4 = 400
4				UPL species 0 x 5 = 0
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 4.0
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Trifolium repens / White clover	35	Yes	FACU	2 - Dominance Test is >50%
2. Poa pratensis / Kentucky blue grass	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
Plantago major / Common plantain	15	No	FACU	4 - Morphological Adaptations (Provide supporting
Cirsium arvense / Canada thistle	10	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Trifolium pratense / Red clover	10	No No	FACU	
•			FACU	¹ Indicators of hydric soil and wetland hydrology must
6. Bellis perennis / English lawn daisy, English daisy	10	No	- -	be present, unless disturbed or problematic.
7		_		
8	_			Definitions of Vegetation Strata
9		_		
10.		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11		_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	110	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1	_	_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 048-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features (inches) Color (moist) % Loc² Color (moist) Type¹ Texture Remarks 10YR 4/4 100 0-4 Sandy ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Compaction refusal

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautaugu	a County	Sampling Date:	07/16/2020
Applicant/Owner:		nnectGen LLC		State: New York	· · · -	048-1W
Investigator(s):	Matt Spadoni, Joe Gallo		Township, Range:		vn of Ripley	
Landform (hillslope, terrace, et	•		ave, convex, none):	Concave	. ,	(%): 0-5
Subregion (LRR or MLRA):			17784687 Long:			`
Soil Map Unit Name:		Erie silt loam		NWI classificatio	-	EM
Are climatic / hydrologic condit			Y No (If n	no, explain in Remarks	-	LIVI
, ,	ons on the site typical for the, or Hydrology	· -		Circumstances" prese	,	No
	, or Hydrology			plain any answers in		110
				•		
SUMMARY OF FINDING	-		omi locations, transi	ects, important i	leatures, etc.	
Hydrophytic Vegetation Pres		No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	No	-
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland S	Site ID:	Wetland 48	
Remarks: (Explain alternativ Cow pasture	e procedures here or in a se	parate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	ore:					
		and annie (Casandan Indiaa	tara (mainima) ma af to	uo mamuinad)
Primary Indicators (minimum	or one required; check all tr		(DO)		Cracks (RS)	vo requirea)
Surface Water (A1)	_	_ Water-Stained Leaves Aquatic Fauna (B13)	(D9)	Surface Soil		
High Water Table (A2)	_	Marl Deposits (B15)		Drainage Pa		
Saturation (A3) Water Marks (B1)	_	_ ' ' '	(C1)	Moss Trim L	` '	
Sediment Deposits (B2)		_ Hydrogen Sulfide Odor			Water Table (C2)	
		Oxidized Rhizospheres		Crayfish Bur		mam. (CO)
Drift Deposits (B3)	_	Presence of Reduced I	` '		isible on Aerial Ima	
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` '		Stressed Plants (D1))
Iron Deposits (B5)		_ Thin Muck Surface (C7		X Geomorphic		
Inundation Visible on A		Other (Explain in Rema	irks)	Shallow Aqu	, ,	
Sparsely Vegetated Co	icave Surface (B8)			X Microtopogra		
				X FAC-Neutral	riest (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 Hy	ydrology Present?	Yes X	No
(includes capillary fringe)		_ · · · /				
. , , ,						
Describe Recorded Data (str	eam gauge, monitoring well	, aerial photos, previous in	spections), if available:			
Danada						
Remarks:						

GETATION - Use scientific names of plants.				
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:30)	%Cover	Species?	Status	
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:)				OBL species 50 x 1 = 50
· <u> </u>				FACW species 10 x 2 = 20
				FAC species 0 x 3 = 0
•				FACU species 10 x 4 = 40
				UPL species 0 x 5 = 0
				Column Totals: (A) (B)
				Prevalence Index = B/A = 1.57
		-		
-	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		_	.	X 1 - Rapid Test for Hydrophytic Vegetation
Carex vulpinoidea / Fox sedge, Brown fox sedge	50	Yes	OBL	X 2 - Dominance Test is >50%
Solidago altissima / Canada goldenrod	10	No	FACU	X 3 - Prevalence Index ≤3.0¹
Eupatorium perfoliatum / Common boneset	10	No	FACW	4 - Morphological Adaptations (Provide supporting
		No No	_ FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Verbena simplex / Narrowleaf vervain		_		
•				¹Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
•				
· <u></u>				Definitions of Vegetation Strata
•				
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
l		_		breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	75	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	= Total Cov	er	Hydrophytic
	-	=		Vegetation
				Present? YesX No

SOIL Sampling Point: 048-1W

Profile Desci Depth	ription: (Describe to t Matrix	ne depth ne		ne indicator k Features	or confirm	the absei	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 5/1	80	5YR 4/6	20	C	PL,M	Clayey loam	
					·			
	-							
	-							
¹Type: C=Cor	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil II	ndicators:						Indicators for	r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R	,MLRA 149	9B) 2 cm Mud	ck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLR	A 149B)	Coast Pra	airie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm Mud	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark Sur	face (S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Redox Dark Sur	face (F6)			Thin Dark	k Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Man	ganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Sui	face (S7) (LRR R, MI	_RA 149B)					Other (Ex	rplain in Remarks)
0								
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	ss disturbed	or probler	natic.	
	ayer (if observed):							
Type:								10
Depth (in	cnes):						Hydric Soil Prese	ent? Yes <u>X</u> No
Remarks:								

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautauqua	a County	Sampling Date:	07/16/2020
Applicant/Owner:	' '	nectGen LLC	· ————————————————————————————————————	State: New York		049-1U
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		n of Ripley	
Landform (hillslope, terrace, etc	•		ave, convex, none):	Convex		(%): 3-5
Subregion (LRR or MLRA):			18067241 Long:			` ′
Soil Map Unit Name:		loam, 3-8 percent slopes		NWI classificatio		
Are climatic / hydrologic condition				o, explain in Remarks		
	, or Hydrology			circumstances" prese	•	No
	, or Hydrology			plain any answers in		
SUMMARY OF FINDING				•	·	
				cis, important i	eatures, etc.	
Hydrophytic Vegetation Prese			Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?		NoX	-
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetland S	ite ID:		
Remarks: (Explain alternative	nrocedures here or in a ser	parate report)				
remarks. (Explain alternative	procedures here or in a sep	diate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum	of one required; check all th	at apply)		Secondary Indica	tors (minimum of tv	vo required)
Surface Water (A1)		Water-Stained Leaves ((B9)	Surface Soil	Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Presence of Reduced I			isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	` '		tressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7)	` '		Position (D2)	,
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Rema		Shallow Aqu		
Sparsely Vegetated Con	- · · · · <u>-</u>				aphic Relief (D4)	
	(20)			FAC-Neutral		
				_		
Field Observations:						
Surface Water Present?	Yes No _X	_ ' '				
Water Table Present?	Yes NoX	Depth (inches):				
Saturation Present?	Yes NoX	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)						
5 " 5						
Describe Recorded Data (stre	eam gauge, monitoring well,	aerial photos, previous in	spections), if available:			
Remarks:						
romano.						

= Total Cover Yes = Total Cover Yes Yes Yes Yes Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 15 x2 = 30 FAC species 15 x3 = 45 FACU species 45 x4 = 180 UPL species 0 x5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators:
= Total Cover Yes = Total Cover Yes Yes Yes Yes Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover Yes = Total Cover Yes Yes Yes Yes Yes	FACU	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet:
= Total Cover Yes = Total Cover Yes Yes Yes Yes Yes	FACU	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	That Are OBL, FACW, or FAC: 50.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total Cover	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Yes = Total Cover Yes Yes Yes Yes	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Yes = Total Cover Yes Yes Yes Yes	FACU	OBL species 0 x 1 = 0 FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	FACW species 15 x 2 = 30 FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	FAC species 15 x 3 = 45 FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	FACU species 45 x 4 = 180 UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	UPL species 0 x 5 = 0 Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Column Totals: 75 (A) 255 (B) Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total Cover	FACU	Prevalence Index = B/A = 3.4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Yes Yes Yes	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Yes Yes Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation
Yes Yes Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation
Yes Yes		
Yes Yes		2 - Dominance lest is >50%
Yes	FAC	0 0 1 1 1 40 01
		3 - Prevalence Index ≤3.0¹
	FACW	4 - Morphological Adaptations (Provide supporting
	171011	Problematic Hydrophytic Vegetation¹ (Explain)
		¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		be present, amose distanced of presiding to.
		Definitions of Vegetation Strata
		Tree Meady plants 2 in (7.6 cm) or mars in diameter at
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH and
= Total Cove		greater than or equal to 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless of
		size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
		height.
		noight.
- Total Cava		Lludrophytic
= Total Cove		Hydrophytic
		Vegetation
		Present? Yes No X
	- Total Cover	Total Cover

SOIL Sampling Point: 049-1U

Depth	ription: (Describe to the Matrix			Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 4/2	95	10YR 5/8	5	C	<u>M</u>	Loam	
								
		-						
							_	
Type: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ains.		²Location	n: PL=Pore Lining, M=Matrix.
lydric Soil Ir	ndicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	Surface (S8) (LRR R,	MLRA 149E		uck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surface				_	rairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M				5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed M	latrix (F2)			Dark Su	rface (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix	(F3)			Polyvalu	ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Surf				_	rk Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					nganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depression	ons (F8)				nt Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							podic (TA6) (MLRA 144A, 145, 149B)
	edox (S5) Matrix (S6)						_	rent Material (F21) allow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149B)						Explain in Remarks)
	(e., (<u>=</u> ,	,						,
Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent, unles	s disturbed	or problema	atic.	
Restrictive L	ayer (if observed):							
Type:								
	ches):						Hydric Soil Pres	sent? Yes NoX
Damarica.								
Remarks:								

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/16/2020
Applicant/Owner:	. ,	ConnectGen LLC	, , <u> </u>		ate: New York		049-1W
Investigator(s):	Matt Spadoni, Joe Ga		Section, Township,			vn of Ripley	
Landform (hillslope, terrace, et			-		Concave		(%): 0-5
Subregion (LRR or MLRA):				Long:	-79.7067760		`
Soil Map Unit Name:		Erie silt loam 3-8%			NWI classification		
Are climatic / hydrologic condit				No (If no	explain in Remark		
, ,	, or Hydrology	•	/ disturbed?		cumstances" prese	,	. No
Are Vegetation , Soil					ain any answers in		
SUMMARY OF FINDING					•	•	
					cis, important	ieatures, etc.	
Hydrophytic Vegetation Pres		X No		ampled Area			
Hydric Soil Present?		X No		Wetland?	Yes X		=
Wetland Hydrology Present?	Yes	X No	_ If yes, o	otional Wetland Sit	e ID:	Wetland 49	
Remarks: (Explain alternativ	e procedures here or in a	senarate report)					
Terrarks. (Explain alternativ	c procedures fiere of fire	г эсрагате теропт.)					
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
Primary Indicators (minimum	of one required; check a	all that apply)			Secondary Indica	ators (minimum of tv	wo required)
Surface Water (A1)		Water-Stained	d Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)		Aquatic Fauna	a (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits			Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sul	fide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2))	X Oxidized Rhiz	ospheres on Living	Roots (C3)	Crayfish Bui		
Drift Deposits (B3)			Reduced Iron (C4)	,		isible on Aerial Ima	igery (C9)
Algal Mat or Crust (B4)			eduction in Tilled So	oils (C6)		Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck Su		()	X Geomorphic	•	,
Inundation Visible on A	erial Imagery (B7)	Other (Explain			Shallow Aqu		
Sparsely Vegetated Co						aphic Relief (D4)	
	(20)				X FAC-Neutra		
				<u> </u>	_		
Field Observations:							
Surface Water Present?	Yes No	X Depth (inche	es):	_			
Water Table Present?	Yes No	X Depth (inche	es):	_			
Saturation Present?	Yes No _	X Depth (inche	es):	Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fringe)							
				<u> </u>			
Describe Recorded Data (str	eam gauge, monitoring v	vell, aerial photos, p	revious inspections)	, if available:			
Remarks:							
remarks.							

EGETATION - Use scientific names of plants.				Sampling Point:049-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1				Total Number of Dominant Species Across All Strata: 4 (B)
· ————————————————————————————————————				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
7.				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		-		OBL species x 1 = 70
1. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FACW species 15 x 2 = 30
2. Viburnum dentatum var. dentatum / Southern arrowwood	5	Yes	FACW	FAC species 10 x 3 = 30
3.		-		FACU species 0 x 4 = 0
4.		- 1		UPL species 0 x 5 = 0
5.				Column Totals: 95 (A) 130 (B)
6.				Prevalence Index = B/A = 1.37
7.		-	-	Iliudusukutis Vanstatian Indiastana.
	15	= Total Cov	er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Carex vulpinoidea / Fox sedge, Brown fox sedge	50	Yes	OBL	
2. Scirpus atrovirens / Green bulrush	20	Yes	OBL	X 3 - Prevalence Index ≤3.01
3. Euthamia graminifolia / Flat-top goldentop	5	No	FAC	4 - Morphological Adaptations (Provide supporting
4. Solidago rugosa / Wrinkle-leaf goldenrod	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
5.	-			
6.				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7 8.				P. Cintalana at Managaration Objects
0				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12	80	= Total Cov	er	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		<u> </u>		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3. 4.				height.
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X NO
Remarks: (Explain alternative procedures here or in a separate				Present? YesX No

SOIL Sampling Point: 049-1W

Depth	ription: (Describe to the Matrix			c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10 YR 3/1	95	10 YR 5/8	5	С	PL	Clayey loam			
6-18	10YR 3/1	85	10YR 5/8	15	D	PL	Clayey loam			
	- · ·									
	<u> </u>									
T O. O.		- DM DI					21			A - 4
Type: C=Col	ncentration, D=Depletion	n, RIVI=Rea	uced Matrix, MS=Masi	ked Sand Gr	ains.		-Loca	tion: PL=P	ore Lining, M=N	латгх.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm l	Muck (A10) (LRR K, L, M	LRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	RR R, MLRA	149B)	Coast	Prairie Re	edox (A16) (LF	RR K, L, R)
Black Hi	istic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm l	Mucky Pea	at or Peat (S3)	(LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyva	alue Below	/ Surface (S8)	(LRR K, L)
Deplete	d Below Dark Surface (A	A11)	X Redox Dark Sur				Thin [Dark Surfa	ce (S9) (LRR I	K, L)
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)								erial (F21)	4.0
	Matrix (S6)								ark Surface (TF	12)
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Other	(Explain ii	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed	or problen	natic.			
			,g,			- I				
	_ayer (if observed):									
Type:									., .,	
Depth (in	nches):						Hydric Soil Pi	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020 - South Ripley	City/Co	unty: Cha	utaugua County	Sampling Date:	07/16/2020
	Coni	nectGen LLC	-	State: New York	Sampling Point:	050-1U
Investigator(s):	Matt Spadoni & Joe Gallo	Section	, Township, Range:	To	wn of Ripley	
Landform (hillslope, terrace, etc			cave, convex, none):	Convex	Slope	(%): 2-5
Subregion (LRR or MLRA):			•	Long: -79.704603		
Soil Map Unit Name:	Erie	silt loam, 3-8 percent		NWI classificati	on:	
Are climatic / hydrologic conditi	ons on the site typical for this	time of year? Yes	X No	(If no, explain in Remark	(s.)	
Are Vegetation X, Soil	, or Hydrology	significantly disturbe	ed? Are "No	 ormal Circumstances" pres	ent? Yes	No X
	, or Hydrology			ded, explain any answers in	Remarks.)	
SUMMARY OF FINDING				transects, important	features, etc.	
Hydrophytic Vegetation Pres	ent? Yes	No X	Is the Sampled A	rea		
Hydric Soil Present?	Yes X		within a Wetland		No X	
Wetland Hydrology Present?		No	If yes, optional We	·	··· <u>·</u>	-
Remarks: (Explain alternative Hayed ag field	e procedures here or in a sep	arate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
	of one required; check all that	at apply)		Secondary Indic	ators (minimum of tw	vo required)
Surface Water (A1)	•	Water-Stained Leaves	(B9)	Surface So	il Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B13)		Drainage P	atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim	Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odo	r (C1)	Dry-Seasor	Water Table (C2)	
Sediment Deposits (B2)	<u>X</u>	Oxidized Rhizosphere	s on Living Roots (C3) Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation \	Visible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction			Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C	•		c Position (D2)	
Inundation Visible on A		Other (Explain in Rem	arks)	Shallow Aq		
Sparsely Vegetated Cor	ncave Surface (B8)				raphic Relief (D4)	
				FAC-Neutra	al lest (D5)	
Field Observations:						
Surface Water Present?	Yes NoX	Depth (inches):				
Water Table Present?	Yes NoX	Depth (inches):				
Saturation Present?	Yes No _X	Depth (inches):	Wetl	and Hydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (str	eam gauge, monitoring well,	aerial nhotos, previous i	nenections) if availah	ام.		
Describe Recorded Data (Str	cam gaage, monitoring wen, t	acriai priotos, previous i	ispections), ii availas			
Remarks:						

GETATION - Use scientific names of plants.				· · · —
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	That Aid Obe, I Aow, of I Ao.
ee Stratum (Flot Size)	/000101	орсою.	Otatus	Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
				P. coloure Index madelands
				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
pling/Shrub Stratum (Plot size: 15)				OBL species 5 x 1 = 5
			- · ·	FACW species 0 x 2 = 0
				FAC species 20 x 3 = 60
				FACU species 40 x 4 = 160
				UPL species 0 x 5 = 0
				Column Totals: 65 (A) 225 (B)
				Prevalence Index = B/A = 3.46
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				2 - Dominance Test is >50%
Trifolium repens / White clover	40	Yes	FACU	3 - Prevalence Index ≤3.0¹
Prunella vulgaris / Self heal	10	No	FAC	4 - Morphological Adaptations (Provide supporting
Ranunculus acris / Acrid buttercup	10	No	FAC	1 - · · · · · · · · · · · · · · · · · · ·
Carex vulpinoidea / Fox sedge, Brown fox sedge	5	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
, 5,		_		
		-		¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
•				breast height (DBH), regardless of height.
· <u> </u>				Sapling/shrub - Woody plants less than 3 in. DBH and
	65	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
pody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
	_		_	height.
		= Total Cov		Hydrophytic
		10(a) 007	CI	Vegetation
				-
				Present? Yes No X

SOIL Sampling Point: 050-1U

Depth	ription: (Describe to the Matrix			c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/1	80	5YR 4/6	20	С	PL,M	Clayey loam			
	· ·									
	· -									
	·									
	-									
	<u></u>									
	·									
T O. O.		- DM D-4					21		Name I indicate NA NA	_ 4t
Type: C=Cor	ncentration, D=Depletio	n, Rivi=Redu	iced Matrix, MS=Masi	Red Sand Gra	airis.		-Loca	uon: PL=P	ore Lining, M=M	atrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	ioils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S8	3) (LRR R	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, ML	.RA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLR	A 149B)	Coas	Prairie Re	edox (A16) (LRF	R K, L, R)
Black Hi	stic (A3)		Loamy Mucky M	1ineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (I	LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyv	alue Belov	v Surface (S8) (I	LRR K, L)
Depleted	d Below Dark Surface (A	A11)	Redox Dark Sur				Thin I	Dark Surfa	ce (S9) (LRR K	, L)
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	lucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 144	IA, 145, 149B)
	Redox (S5)						_		erial (F21)	
	Matrix (S6)								ark Surface (TF1:	2)
Dark Su	rface (S7) (LRR R, ML	-RA 149B)					Other	(Explain ii	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	l hydrology must be n	resent unles	s disturbed	d or problen	natic			
			, a. e.egyaet 2e p			. o. p. oo.o				
	ayer (if observed):									
Type:	1 \		<u></u>							
Depth (in	cnes):						Hydric Soil P	resent?	Yes X	. No
Remarks:										

Project/Site:	19020 - South Ripley		City/County:	Chautau	qua County	Sampling Date:	07/16/2020
Applicant/Owner:		ConnectGen LLC	, , , , , ,		State: New York		050-1W
Investigator(s):	Matt Spadoni, Joe Ga	llo	Section, Town	nship, Range:		wn of Ripley	
Landform (hillslope, terrace,				convex, none):		Slope	: (%): 0-5
Subregion (LRR or MLRA):			42.1762	· -		 27 Datun	n: NAD 83
Soil Map Unit Name:		Erie silt loam 3-8%	slopes		NWI classificati	on:	-
Are climatic / hydrologic cor	ditions on the site typical fo	r this time of year?	Yes X	No (If no, explain in Remarl	(s.)	
Are Vegetation X , S	oil , or Hydrology	significant	y disturbed?		al Circumstances" prese		No X
	Soil , or Hydrology			(If needed,	explain any answers in		
SUMMARY OF FINDI				•	•	•	
Hydrophytic Vegetation P				the Sampled Area		100101100, 0101	
Hydric Soil Present?	Yes	X No		thin a Wetland?	Yes X	No	
Wetland Hydrology Prese		X No	_	yes, optional Wetlan		Wetland 50	=
vvettaria i rydrology i resc		<u> </u>	_ " '	yes, optional vvetian	d Olic ID.	Wetland 50	
Remarks: (Explain alterna Area has be	ative procedures here or in a en hayed	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indi	cators:						
	um of one required; check a	all that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	·	Water-Staine	d Leaves (B9)			l Cracks (B6)	
High Water Table (A	2)	Aquatic Faun	ia (B13)		Drainage P	atterns (B10)	
Saturation (A3)		Marl Deposits	s (B15)		Moss Trim	_ines (B16)	
Water Marks (B1)		Hydrogen Su	lfide Odor (C1))	Dry-Seasor	Water Table (C2)	
Sediment Deposits (B2)	X Oxidized Rhiz	zospheres on L	iving Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of I	Reduced Iron (C4)	Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (E	34)	Recent Iron F	Reduction in Til	led Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck St	urface (C7)		X Geomorphi	Position (D2)	
Inundation Visible or	n Aerial Imagery (B7)	Other (Explai	n in Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	Concave Surface (B8)				Microtopog	raphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	ec).				
Water Table Present?	Yes No	X Depth (inch					
Saturation Present?	Yes No	X Depth (inch	· —	Wetland	Hydrology Present?	Yes X	No
(includes capillary fringe)	100 <u> </u>	Z Bopai (mon			Try and logy Trocontr	100 <u>X</u>	
(morause supmary milgs)							
Describe Recorded Data	(stream gauge, monitoring v	well, aerial photos, p	previous inspec	ctions), if available:			
Remarks:							
ixemarks.							
1							

Sapling/Shrub Stratum	al Cover State St	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species 40 FACW species 60 $x = 120$ FAC species 0 $x = 120$ FACU species 1 FACU species
Tree Stratum (Plot size: 30 %Cover Species 1. 2. 3. 4. 5. 6. 7. 6. 7.	al Cover State St	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x1 = 40 FACW species 60 x2 = 120 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
Tree Stratum (Plot size: 30 %Cover Species 1. 2. 3. 4. 5. 6. 7. 6. 7. 0 = Total 5. 6. 7.	al Cover State St	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x1 = 40 FACW species 60 x2 = 120 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
Tree Stratum (Plot size: 30) %Cover Species 1. 2. 3. 4. 5. 6. 7. 6. 7. 7. 0 = Total 5. 6. 7.	al Cover State St	Total Number of Dominant Species Across All Strata: Percent of Dominant Species
1.	al Cover es F/es (Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x1 = 40 FACW species 60 x2 = 120 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
2.	al Cover al Cover es F/es C	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
3.	al Cover al Cover es F/es C	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 60 x 2 = 120 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $X = 1$ - Rapid Test for Hydrophytic Vegetation $X = 1$ - Rapid Test for Hydrophytic Vegetation $X = 1$ - Rapid Test for Hydrophytic Vegetation $X = 1$ - Rapid Test for Hydrophytic Vegetation $X = 1$ - Rapid Test for Hydrophytic Vegetation
4.	al Cover al Cover es F/es C	That Are OBL, FACW, or FAC: 100.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 60 x 2 = 120 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{X}$ 2 - Dominance Test is >50% $\frac{X}{X}$ 3 - Prevalence Index \leq 3 01
5. 6. 7. 0 Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 6. 7. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Yes Yes 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Yes Yes 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Yes Yes 4. 5. 6. 7. 8. 9.	al Cover al Cover es FA	That Are OBL, FACW, or FAC: 100.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 60 x 2 = 120 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{X}$ 2 - Dominance Test is >50% $\frac{X}{X}$ 3 - Prevalence Index \leq 3 01
6.	al Cover al Cover es FA es C	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 60 x 2 = 120 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{X}$ 2 - Dominance Test is >50% $\frac{X}{X}$ 3 - Prevalence Index \leq 3 01
6.	al Cover al Cover es FA es C	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x1 = 40 FACW species 60 x2 = 120 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{ACW}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{ACW}$ 2 - Dominance Test is >50% $\frac{X}{ACW}$ 3 - Prevalence Index $\leq 3.0^{\circ}$
7	al Cover es FA	Total % Cover of: Multiply by: OBL species 40 $\times 1 = 40$ FACW species 60 $\times 2 = 120$ FAC species 0 $\times 3 = 0$ FACU species 0 $\times 4 = 0$ UPL species 0 $\times 5 = 0$ Column Totals: 100 (A) 160 (B Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{1}$ - Rapid Test for Hydrophytic Vegetation $\frac{X}{3}$ - Prevalence Index $\leq 30^{\circ}$
O	al Cover es FA	OBL species 40 \times 1 = 40 FACW species 60 \times 2 = 120 FAC species 0 \times 3 = 0 FACU species 0 \times 4 = 0 UPL species 0 \times 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{X}$ 2 - Dominance Test is >50% $\frac{X}{X}$ 3 - Prevalence Index \leq 3 01
Sapling/Shrub Stratum	al Cover es FA	OBL species 40 \times 1 = 40 FACW species 60 \times 2 = 120 FAC species 0 \times 3 = 0 FACU species 0 \times 4 = 0 UPL species 0 \times 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{X}{X}$ 2 - Dominance Test is >50% $\frac{X}{X}$ 3 - Prevalence Index \leq 3 01
1.	al Cover es F/es (FACW species $60 x 2 = 120$ FAC species $0 x 3 = 0$ FACU species $0 x 4 = 0$ UPL species $0 x 5 = 0$ Column Totals: $100 (A) 160 (B)$ Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{X} 1 - \text{Rapid Test for Hydrophytic Vegetation}$ $\frac{X}{X} 2 - \text{Dominance Test is } > 50\%$ $\frac{X}{X} 3 - \text{Prevalence Index } \leq 30^{\circ}$
2.	al Cover es F/es (FAC species $0 \times 3 = 0$ FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column Totals: $100 \times 5 = 0$ Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: $\frac{X}{1} - \text{Rapid Test for Hydrophytic Vegetation}$ $\frac{X}{3} - \text{Prevalence Index} \le 30^{\circ}$
3.	al Cover es F/es (FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B) Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
4. 5. 6. 7. 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 2. Juncus effusus / Common bog rush, Soft or lamp rush 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 4. 5. 6. 7. 8. 9.	al Cover es FA	UPL species 0 x 5 = 0 Column Totals: 100 (A) 160 (B Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
4	al Cover es FA	Column Totals: 100 (A) 160 (B Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
5.	es FA	Prevalence Index = B/A = 1.6 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
6. 7. O = Tota	es FA	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
Total Herb Stratum (Plot size:5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Ye 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4	es FA	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
Herb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Ye 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.	es FA	X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
Herb Stratum (Plot size: 5) 1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Ye 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.	es FA	X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Ye 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.	es C	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3 0¹
1. Phalaris arundinacea / Reed canarygrass, Reed canary gras 60 Ye 2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.	es C	ACW X 3 - Prevalence Index ≤3 01
2. Juncus effusus / Common bog rush, Soft or lamp rush 20 Ye 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.	es C	—— I X 3 - Prevalence Index ≤3 0¹
3. Carex vulpinoidea / Fox sedge, Brown fox sedge 20 Ye 4. 5. 6. 7. 8. 9.)BI I
4. 5. 6. 7. 8. 9.	es	4 - Morphological Adaptations (Provide supporting
5.		Problematic Hydrophytic Vegetation¹ (Explain)
6	———	_
6		¹Indicators of hydric soil and wetland hydrology must
7		indicators of flydric soil and wetland flydrology must
8		be present, unless disturbed or problematic.
9.		- The metalian Ottoba
		Definitions of Vegetation Strata
10		<u> </u>
10		
11		
12.		Sapling/shrub - Woody plants less than 3 in. DBH and
100 = Tota	Cover	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)	100	
		Herb - All herbaceous (non-woody) plants, regardless of
1	———	size, and woody plants less than 3.28 ft tall.
2		Woody vines - All woody vines greater than 3.28 ft in
3		height.
4.		
·	al Cover	Hydrophytic
	10.	Vegetation
		Present? Yes X No

SOIL Sampling Point: ____050-1W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/1	80	5YR 4/6	20	С	PL,M	Clayey loam			
				_						
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, M=I	Matrix.
lydric Soil I	ndicatore:						Indicators	for Probl	ematic Hydric	Soile3:
Histosol			Polyvalue Belov	v Surface (SS) (I DD D	MI DA 140) (LRR K, L, N	
	` '							-		-
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LF	
	istic (A3)		Loamy Mucky N		LKK N, L)				at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N					-	7) (LRR K, L) v Surface (S8)	
	d Layers (A5)	111	X Depleted Matrix						, ,	
	d Below Dark Surface (A	411)	Redox Dark Sur Depleted Dark S						ce (S9) (LRR	
	ark Surface (A12) /lucky Mineral (S1)		Redox Depressi					-		(LRR K, L, R)
	Gleyed Matrix (S4)		Redux Deplessi	ions (Fo)						9) (MLRA 149B) 44A, 145, 149B)
	Redox (S5)								erial (F21)	44A, 143, 143D)
	Matrix (S6)								eriai (F21) ark Surface (TF	12)
	rface (S7) (LRR R, ML	DA 140D)							n Remarks)	12)
Daik Su	illace (37) (LKK K, WL	.KA 1490)					Other	(Explain ii	i Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	d or problen	natic.			
	_ayer (if observed):									
Type:	achas):						Hudria Cail D	rocent?	Voc. V	No
Depth (in	icnes):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripley	City/Cou	unty: C	hautauqua County	Sampling Date:	07/17/2020
Applicant/Owner:		nnectGen LLC	,		Sampling Point:	051-1U
Investigator(s):	Matt Spadoni & Joe Gallo		, Township, Range		Town of Ripley	
Landform (hillslope, terrace, et			cave, convex, none			(%): 0-5
Subregion (LRR or MLRA):			.18749276	Long: -79.7152		`
Soil Map Unit Name:		It loam, 3-8 percent slopes		NWI classific		10.15.00
Are climatic / hydrologic conditi				(If no, explain in Rem		
	, or Hydrology	· · · · · · · · · · · · · · · · · · ·		"Normal Circumstances" pr	•	(No
	, or Hydrology			eeded, explain any answers		<u> </u>
·				•	•	
SUMMARY OF FINDING	-			s, transects, importa	nt leatures, etc.	
Hydrophytic Vegetation Pres	sent? Yes		Is the Sample			
Hydric Soil Present?	Yes	No X	within a Wetla	nd? Yes	No X	_
Wetland Hydrology Present?	Yes	NoX	If yes, optional	Wetland Site ID:		
Remarks: (Explain alternative	e procedures here or in a se	narate report)	I.			
Terrains. (Explain alternative	e procedures here or in a se	parate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
Primary Indicators (minimum		nat apply)		Secondary In	dicators (minimum of to	vo required)
Surface Water (A1)	or one required, encontain a	Water-Stained Leaves	(B9)		Soil Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)	(20)		Patterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)			m Lines (B16)	
Water Marks (B1)	_	Hydrogen Sulfide Odo	r (C1)		son Water Table (C2)	
Sediment Deposits (B2)	_	Oxidized Rhizospheres			Burrows (C8)	
_ · · · · ·	_	_	-	<u> </u>		ngon, (CO)
Drift Deposits (B3) Algal Mat or Crust (B4)	_	Presence of Reduced	, ,		on Visible on Aerial Ima or Stressed Plants (D1	
		Recent Iron Reduction	In Tilled Solls (Co) Siuntea	or Stresseo Plants (L) i)
_ ·	_		·		•	•
Iron Deposits (B5)	- (D7)	Thin Muck Surface (C7	•	Geomor	ohic Position (D2)	,
Iron Deposits (B5) Inundation Visible on Ae	-	Thin Muck Surface (C7 Other (Explain in Rema	•	Geomor	ohic Position (D2) Aquitard (D3)	,
Iron Deposits (B5)	-	_	•	Geomor	ohic Position (D2) Aquitard (D3) ographic Relief (D4)	,
Iron Deposits (B5) Inundation Visible on Ae	-	_	•	Geomor	ohic Position (D2) Aquitard (D3)	,
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod	-	_	•	Geomor	ohic Position (D2) Aquitard (D3) ographic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Con Field Observations:	ncave Surface (B8)	Other (Explain in Rema	•	Geomor	ohic Position (D2) Aquitard (D3) ographic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Cod Field Observations: Surface Water Present?	ricave Surface (B8) Yes NoX	Other (Explain in Rema	•	Geomor	ohic Position (D2) Aquitard (D3) ographic Relief (D4)	
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Other (Explain in Remain Depth (inches):	arks)	Geomor Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No. Y
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ricave Surface (B8) Yes NoX	Other (Explain in Remain Depth (inches):	arks)	Geomor	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Other (Explain in Remain Depth (inches):	arks)	Geomor Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	NoX
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X
Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cod Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Other (Explain in Remain Depth (inches): Depth (inches): Depth (inches):	arks)	Geomory Shallow Microtop FAC-Net	ohic Position (D2) Aquitard (D3) ographic Relief (D4) utral Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point:051-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer saccharum / Sugar maple	30	Yes	FACU	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	10	Yes	FAC	Species Across All Strata: 3 (B)
3. Fagus grandifolia / American beech	5	No	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 33.3 (A/B)
6.				
7.				Prevalence Index worksheet:
	45	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		-		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.				FACU species 60 x 4 = 240
4.				UPL species 0 x 5 = 0
				Column Totals: 70 (A) 270 (B)
				Prevalence Index = B/A = 3.86
		-		
7		= Total Cov	er	Hydrophytic Vegetation Indicators:
Horb Stratum (Plot size: 5		_ = 10(a) C0V	ei .	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	25	Vac	FACIL	2 - Dominance Test is >50%
Thelypteris noveboracensis / New york fern	25	Yes	FACU	3 - Prevalence Index ≤3.0¹
2	_			4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4		_		_ , , , , , , , , , , , , , , , , , , ,
5	_			¹ Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7		_		
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	25	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 051-1U

Depth	ription: (Describe to the Matrix	ie uepui nee		re indicator	or committee	ผมอยาเ	se or mulcators	· <i>j</i>
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ I	_OC²	Texture	Remarks
0-5	10YR 2/1	100					Loam	
5-18	10YR 3/3	100						
						-		
						-		
								-
Type: C=Cor	ncentration, D=Depletion	n, RM=Reduc	ed Matrix, MS=Masl	ked Sand Gr	ains.		²Locat	ion: PL=Pore Lining, M=Matrix.
ludria Cail li	adiaatawa.						Indicators	for Problematic Hydric Soils ³ :
Hydric Soil I			Dobavoluo Bolov	v Curfoso (C)	0\	DA 440E		-
Histosol		-	Polyvalue Belov	•	, .		· —	Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	Thin Dark Surfa			9B)		Prairie Redox (A16) (LRR K, L, R)
Black Hi		-	Loamy Mucky N		(LKK K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed I					Surface (S7) (LRR K, L)
	Layers (A5)	<u>-</u>	Depleted Matrix					alue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sui					Oark Surface (S9) (LRR K, L)
	ark Surface (A12)	-	Depleted Dark S					langanese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)	-	Redox Depress	ions (F8)				ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							arent Material (F21)
	Matrix (S6)	DA 440D)						Shallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, ML	.KA 149B)					Other	(Explain in Remarks)
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed or	problema	atic.	
			-					
Type:	ayer (if observed):							
	ohoo):		<u></u>				Hydric Soil Br	ecent? Vos No V
Depth (in	cnes):						Hydric Soil Pr	esent? Yes NoX
Remarks:								

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautau	iqua County	Sampling Date: 07/17/2020
Applicant/Owner:		nnectGen LLC	,	State: New York	
Investigator(s):	Matt Spadoni, Joe Gallo	Section,	Township, Range:		vn of Ripley
Landform (hillslope, terrace, etc.			ave, convex, none):		
Subregion (LRR or MLRA):			18760762 Long		
Soil Map Unit Name:		e silt loam 3-8% slopes		NWI classification	
Are climatic / hydrologic conditi				If no, explain in Remark	
, ,	, or Hydrology	· · · · · · · · · · · · · · · · · · ·	`	al Circumstances" prese	,
	, or Hydrology			explain any answers in	
SUMMARY OF FINDING				•	•
	-			isecis, important	leatures, etc.
Hydrophytic Vegetation Pres		No	Is the Sampled Area		
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes X	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetlan	d Site ID:	Wetland 51
Remarks: (Explain alternative	nrocedures here or in a se	narate report)			
remarks. (Explain alternative	s procedures here or in a se	parate report.)			
HYDROLOGY					
Wetland Hydrology Indicat	ors:				
Primary Indicators (minimum	of one required; check all the	nat apply)		Secondary Indica	ators (minimum of two required)
Surface Water (A1)	χ	Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
X High Water Table (A2)	_	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
X Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	<u> </u>	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	
Drift Deposits (B3)	_	Presence of Reduced I	- · · ·		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` '		Stressed Plants (D1)
Iron Deposits (B5)	_	Thin Muck Surface (C7		X Geomorphic	` '
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema		Shallow Aqu	
Sparsely Vegetated Cor		_			aphic Relief (D4)
	(20)			X FAC-Neutra	· · ·
			1		
Field Observations:					
Surface Water Present?	Yes No _X	Depth (inches):			
Water Table Present?	Yes X No	Depth (inches):	8		
Saturation Present?	Yes X No	Depth (inches):	4 Wetland	Hydrology Present?	Yes X No
(includes capillary fringe)		_			
Describe Recorded Data (str	eam gauge, monitoring well	, aerial photos, previous ir	spections), if available:		
Remarks:					
remarks.					

VEGETATION - Use scientific names of plants.				Sampling Point:051-1W
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(1)
1. Fagus grandifolia / American beech	10	Yes	FACU	Total Number of Dominant
		_		Species Across All Strata: 5 (B)
2.		_		Species Across All Strata (B)
3.				Devent of Deminent Charles
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80.0 (A/B)
6	_			Prevalence Index worksheet:
7		_		
	10	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x1 = 0
Carpinus caroliniana / American hornbeam	15	Yes	FAC	FACW species 30 x 2 = 60
2.				FAC species 15 x 3 = 45
3.				FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
				Column Totals: 55 (A) 145 (B)
^			-	Prevalence Index = B/A = 2.64
7	_			
7		T-4-1 O		Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	10	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Laportea canadensis / Canadian wood-nettle	10	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Osmunda cinnamomea / Cinnamon fern	10	Yes	FACW	
4. Polygonum sagittatum / Arrowleaf tearthumb	5	No		Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
				Definitions of Venetation Of the
0			-	Definitions of Vegetation Strata
	-	-	-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	35	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 051-1W

Depth	ription: (Describe to t Matrix			x Features				- 17		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-1	10YR 2/2	100					Mucky loam			
1-2	10Y 3/1	90	10YR 5/8	10	C	PL,M	Clayey loam			
2-18	10 YR 5/1	85	10YR 5/8	15	C	PL,M	Loamy clay			
			,							
	· -			_						
					·			-		
										
				_						
	-									
				_						
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=N	Matrix.
lydric Soil I	ndicators:						Indicators	s for Probl	lematic Hydric	Soils ³
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R	MLRA 149) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LR	•
	istic (A3)		Loamy Mucky N						at or Peat (S3)	
	en Sulfide (A4)		X Loamy Gleyed		, ,			-	67) (LRR K, L)	, , ,
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	(LRR K. L)
	d Below Dark Surface ((A11)	Redox Dark Su						ice (S9) (LRR I	
	ark Surface (A12)	,	Depleted Dark							(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					•	, ,) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)		_ ·	. ,						I4A, 145, 149B)
Sandy F	Redox (S5)						Red I	Parent Mat	terial (F21)	•
Stripped	Matrix (S6)						Very	Shallow Da	ark Surface (TF	12)
Dark Su	ırface (S7) (LRR R, M	LRA 149B)					Othe	r (Explain i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	ss disturbe	d or probler	matic			
	_ayer (if observed):		,							
Type:	-ayer (ii observeu).									
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
							.,			
Remarks:										

Project/Site:	19020 - South Ripley	City/Co	ounty: Cl	hautaugua County	Sampling Date: 07/17/2020
	Conr	nectGen LLC	-	State: New York	Sampling Point: 051-2W
Investigator(s):	Matt Spadoni, Joe Gallo	Section	n, Township, Range:	To	wn of Ripley
Landform (hillslope, terrace, et		Local relief (cor	ncave, convex, none	e): Concave	Slope (%): 0-5
Subregion (LRR or MLRA):	<u> </u>		2.18909871	Long: -79.718302	13 Datum: NAD 83
Soil Map Unit Name:	Erie	silt loam 3-8% slops		NWI classification	on:
Are climatic / hydrologic condit	ons on the site typical for this	time of year? Yes	X No	(If no, explain in Remark	(S.)
Are Vegetation, Soil	, or Hydrology	significantly disturb	ped? Are '	 'Normal Circumstances" prese	ent? Yes X No
	, or Hydrology			eeded, explain any answers in	
SUMMARY OF FINDING				, transects, important	features, etc.
Hydrophytic Vegetation Pres	ent? Yes X	_ No	Is the Sampled	Area	
Hydric Soil Present?	Yes X	No	within a Wetlar		No
Wetland Hydrology Present?		No		Wetland Site ID:	Wetland 51
Remarks: (Explain alternativ	e procedures here or in a sep	arate report.)			
HYDROLOGY					
Wetland Hydrology Indicat	ors:				
	of one required; check all that	at apply)		Secondary Indic	ators (minimum of two required)
Surface Water (A1)		Water-Stained Leave	s (B9)		il Cracks (B6)
High Water Table (A2)	_	Aquatic Fauna (B13)	,		atterns (B10)
Saturation (A3)		Marl Deposits (B15)		Moss Trim I	
Water Marks (B1)	_	Hydrogen Sulfide Ode	or (C1)	Dry-Seasor	n Water Table (C2)
Sediment Deposits (B2)	<u>X</u>	Oxidized Rhizosphere	es on Living Roots (C3) Crayfish Bu	rrows (C8)
Drift Deposits (B3)		Presence of Reduced	l Iron (C4)	Saturation \	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reductio	n in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C	27)	X Geomorphic	c Position (D2)
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Ren	narks)	Shallow Aq	uitard (D3)
Sparsely Vegetated Co	ncave Surface (B8)			Microtopog	raphic Relief (D4)
				X FAC-Neutra	ıl 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):	w	etland Hydrology Present?	Yes X No
(includes capillary fringe)		_			
Describe Described Date (at				-bl	
Describe Recorded Data (sti	ream gauge, monitoring well, a	aeriai pnotos, previous	inspections), if avail	able:	
Remarks:					

/EGETATION - Use scientific names of plants.				Sampling Point:051-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',')
1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Total Number of Dominant
2		_	<u> </u>	Species Across All Strata: 1 (B)
^				Opecies Across Air Strata.
				Dersont of Dominant Chapita
_				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
7				
	0	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15)				FACW species 90 x 2 = 180
1				
2				FAC species 0 x 3 = 0
3		_		FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 90 (A) 180 (B)
6				Prevalence Index = B/A = 2.0
7.				Illudes also dis Verendadis e la disada esc
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea / Reed canarygrass, Reed canary gra	s 90	Yes	FACW	X 2 - Dominance Test is >50%
2				X 3 - Prevalence Index ≤3.0¹
2				4 - Morphological Adaptations (Provide supporting
1			<u> </u>	Problematic Hydrophytic Vegetation¹ (Explain)
5.				
•				¹ Indicators of hydric soil and wetland hydrology must
<u> </u>		_	<u> </u>	be present, unless disturbed or problematic.
7				
8.		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	_			breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	90	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
			.	Vegetation
				Present? YesX No
				riesent: les X No
Remarks: (Explain alternative procedures here or in a separate	e report)			
Tremaine. (Explain alternative procedures here of in a separate	roport.)			

SOIL Sampling Point: 051-2W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/1	85	10YR 5/8	15	С	PL,M	Clayey loam			
Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, M=I	Matrix.
lydric Soil I	ndicatore:						Indicators	for Probl	ematic Hydric	Soile3:
Histosol			Polyvalue Below	v Surface (S9) (I DD D	MI DA 140) (LRR K, L, N	
	` '								edox (A16) (LF	-
	pipedon (A2)		Thin Dark Surfa							
Black Hi			Loamy Mucky M		LKK K, L)				at or Peat (S3)	
	n Sulfide (A4) d Layers (A5)		Loamy Gleyed N					-	7) (LRR K, L) v Surface (S8)	
	, , ,	۸ 4 4 \	X Depleted Matrix						` '	
	d Below Dark Surface (A	411)	Redox Dark Sur Depleted Dark S						ce (S9) (LRR	
	ark Surface (A12) Nucky Mineral (S1)		Redox Depressi					-		(LRR K, L, R)
_ ′	, ,		Redox Depressi	ions (Fo)) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	40)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Other	(Explain i	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	l or problem	natic.			
			, , ,			•				
	.ayer (if observed):									
Type:	-l \·						Under Oall D		V V	NI-
Depth (in	cnes):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 -	- South Ripley	(City/County:	Chautaugu	ıa Countv	Sampling Date:	07/20/2020
Applicant/Owner:		· · ·	nectGen LLC			State: New York	-	052-1U
Investigator(s):		JA SPF		Section, Towns			wn of Ripley	
Landform (hillslope, terr	race. etc):	Mound			onvex, none):	Convex	Slope	(%): 0-5
Subregion (LRR or MLF	· · ·		Lat:	42.19688	· -	-79.715663		
Soil Map Unit Name:	, 		Ashville silt loam			NWI classification		
Are climatic / hydrologic	c conditions on the				No (If r	— no, explain in Remark	s.)	
Are Vegetation			•			Circumstances" prese	•	(No
		, or Hydrology		blematic?	(If needed, ex	cplain any answers in		
SUMMARY OF FIN					•	•	•	
Hydrophytic Vegetation		Yes	No X		e Sampled Area			
Hydric Soil Present?		Yes	NoX		in a Wetland?	Yes	No X	
Wetland Hydrology P		Yes	No X		s, optional Wetland S			_
Trottana riyarology r				, ,	o, optional Wotalia			
Remarks: (Explain al Upland	Iternative procedur point for 052	res here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (m		quired: check all th	at annly)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A		quirea, ericoit air un	Water-Stained I	Leaves (B9)		- 	l Cracks (B6)	wo required)
High Water Tabl	,		Aquatic Fauna	` ,			atterns (B10)	
Saturation (A3)			Marl Deposits (Moss Trim L		
Water Marks (B			Hydrogen Sulfic	de Odor (C1)			Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhizo		ing Roots (C3)	Crayfish Bu		
Drift Deposits (B	33)		Presence of Re	educed Iron (C	1)	Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	ust (B4)	·	Recent Iron Re	duction in Tille	d Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B	35)		Thin Muck Surfa	ace (C7)		Geomorphic	Position (D2)	
Inundation Visib	ole on Aerial Image	ery (B7)	Other (Explain i	in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Surf	face (B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Prese		No X	Depth (inches	.).				
Water Table Present?		NoX						
Saturation Present?	Yes		_ ' '	· ———	Wetland H	ydrology Present?	Yes	No X
(includes capillary frin			Boptii (iiioiioo			yarology i rocom:		<u> </u>
(morado dapinary iiii								
Describe Recorded D	Data (stream gaug	e, monitoring well,	aerial photos, pre	evious inspection	ons), if available:			
Domarka								
Remarks:								
1								

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	85	Yes	FACU	Total Number of Dominant
Prunus serotina / Black cherry	10	No	FACU	Species Across All Strata: 2 (B)
,			- —	
		-	-	Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0 (A/B)
				11100.1
_			- ——	Prevalence Index worksheet:
	95	= Total Cov	/er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)				OBL species 0 $x = 0$
<u> </u>				FACW species 0 x 2 = 0
				FAC species 5 x 3 = 15
			- ——	FACU species 95 x 4 = 380
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 395 (B)
				Prevalence Index = B/A = 3.95
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)		_		2 - Dominance Test is >50%
Acer rubrum / Red maple	5	Yes	FAC	
				3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
-			- —	¹ Indicators of hydric soil and wetland hydrology must
-				be present, unless disturbed or problematic.
			- ——	
				Definitions of Vegetation Strata
).				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
•				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	5	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
			-	height.
		-	-	
	0	= Total Cov	er	Hydrophytic
		-		Vegetation
				Present? Yes NoX

SOIL Sampling Point: 052-1U

Depth	ription: (Describe to the Matrix			x Features			,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Re	emarks	
0-2	5YR 2.5/1	100					Silt loam			
2-18	10YR 4/4	100					Silt loam			
										
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Location	: PL=Pore Lini	ing, M=Matrix.	
Hydric Soil I									Hydric Soils ³ :	
Histosol			Polyvalue Belov						K, L, MLRA 1491	-
	oipedon (A2)		Thin Dark Surfa			49B)			16) (LRR K, L, R	
	stic (A3)		Loamy Mucky N		(LRR K, L)				at (S3) (LRR K, L	L, R)
	en Sulfide (A4)		Loamy Gleyed					face (S7) (LR	· ·	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surfac	ce (S8) (LRR K, L	L)
Deplete	d Below Dark Surface (A	411)	Redox Dark Su	rface (F6)			Thin Dar	k Surface (S9)	(LRR K, L)	
Thick Da	ark Surface (A12)		Depleted Dark				Iron-Man	ganese Masse	es (F12) (LRR K,	, L, R)
Sandy N	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedmon	t Floodplain Sc	oils (F19) (MLRA	149B)
Sandy C	Gleyed Matrix (S4)						Mesic Sp	odic (TA6) (N	ILRA 144A, 145,	149B)
Sandy F	Redox (S5)						Red Pare	ent Material (F2	21)	
Stripped	l Matrix (S6)						Very Sha	llow Dark Surfa	ace (TF12)	
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other (Ex	kplain in Rema	rks)	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed or	problem	atic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	ent? Yes	. No	X
Remarks:										

Project/Site:	19020	- South Ripley		City/County	y:	Chautauqua	County	Sampling Date:	07/21/2020
Applicant/Owner:		C	ConnectGen LLC			Sta	ate: New York	Sampling Point:	052-1W
Investigator(s):	Matt Spadoni, Sa	m Parker and Jos	sh Marchner	Section, To	wnship, Ran	ge:	To	wn of Ripley	
Landform (hillslope, te							Concave	Slope	e (%): 0-5
Subregion (LRR or MI			Lat:		956921	Long:	-79.71931	75 Datur	n: NAD 83
Soil Map Unit Name:			Erie silt loam	1			NWI classificat	ion:	PEM
Are climatic / hydrolog	gic conditions on th	ne site typical for	this time of year?	Yes X	No	(If no,	_ explain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydrology	significant	ly disturbed?	A	re "Normal Cir	cumstances" pres	ent? Yes	X No
	, Soil					f needed, expla	ain any answers ir	Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map	showing san	npling poi	nt locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegeta	ation Present?	Yes >	(No		Is the Samp	led Area	<u>-</u>		
Hydric Soil Present			(No		within a We		Yes X	No	
Wetland Hydrology		Yes >	C No		If yes, option	al Wetland Site	e ID:	Wetland 52 PEM	_
Remarks: (Explain	alternative procedu	ures here or in a s	separate report.)						
HYDROLOGY									
Wetland Hydrolog	v Indicators:								
Primary Indicators (equired: check all	that apply)				Secondary Indic	ators (minimum of	two required)
Surface Water		,	X Water-Staine	d Leaves (B9	9)			il Cracks (B6)	
High Water Ta	ble (A2)	•	Aquatic Faun	ıa (B13)			X Drainage F	atterns (B10)	
Saturation (A3	3)	•	Marl Deposits	s (B15)				Lines (B16)	
Water Marks (B1)		X Hydrogen Su	Ifide Odor (C	C1)		Dry-Seaso	n Water Table (C2)	
Sediment Dep	osits (B2)		Oxidized Rhiz	zospheres on	n Living Root	s (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits	(B3)		Presence of I	Reduced Iron	n (C4)		Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or C	rust (B4)		Recent Iron F	Reduction in 7	Tilled Soils (C6)	Stunted or	Stressed Plants (D	1)
Iron Deposits	(B5)		Thin Muck St	urface (C7)			X Geomorph	c Position (D2)	
	sible on Aerial Imag		Other (Explai	in in Remarks	s)		Shallow Ac	uitard (D3)	
Sparsely Vege	etated Concave Su	rface (B8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observation	s:								
Surface Water Pres	sent? Yes	s No	X Depth (inch	es):					
Water Table Preser			X Depth (inch	es):	,				
Saturation Present	? Yes	s No	X Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary f	iringe)								
Describe Described	L Data (atraom sou	an manitarina			antings) if a	veileble.			
Describe Recorded	Data (stream gau	ge, monitoring we	eii, aeriai priotos, p	previous irispe	ections), ii a	valiable:			
Remarks:									
1									

VEGETATION - Use scientific names of plants.				Sampling Point:052-1W
Troc Ctroture (Distains)	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size:30) 123.	_			Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6		= Total Cov		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	15	Yes	FACW	OBL species 25 x 1 = 25 FACW species 40 x 2 = 80 FAC species 20 x 3 = 60 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 85 (A) 165 (B)
6. 7.				Prevalence Index = B/A =1.94
Herb Stratum (Plot size:5)	15	= Total Cov		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Euthamia graminifolia / Flat-top goldentop	20	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
2. Bidens frondosa / Sticktight	15	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Carex lurida / Shallow sedge	15	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
Verbena simplex / Narrowleaf vervain Typha latifolia / Broadleaf cattail, Broad-leaved cattail	10 10	No No	FACW_ OBL	
6.	_		OBL	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. 9.	_			Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12		= Total Cov	er	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				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3.		_		Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic
				Vegetation Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			1

 SOIL
 Sampling Point: ___052-1W

Depth	ription: (Describe to th Matrix	<u> </u>		Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 3/1	85	7.5YR 5/8	15	С	PL,M	Clay			
		-								
	· -									
			-							
Type: C=Cor	ncentration, D=Depletion	n. RM=Red	luced Matrix, MS=Mask	ed Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=Ma	ıtrix.
ydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric So	oils³:
Histosol	(A1)		Polyvalue Belov	V Surface (S8	3) (LRR R	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L, ML	RA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLR	A 149B)	Coas	t Prairie Re	edox (A16) (LRR	K, L, R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1) (LRR K, L)		5 cm	Mucky Pe	at or Peat (S3) (L	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	(LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Belov	v Surface (S8) (L	RR K, L)
Depleted	d Below Dark Surface (A	A11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR K,	L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-I	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depressi				Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
	Gleyed Matrix (S4)		_ '	,					A6) (MLRA 144	
	Redox (S5)								erial (F21)	, , , ,
	Matrix (S6)								ark Surface (TF12	')
	rface (S7) (LRR R, ML	RA 149R)							n Remarks)	.,
Dark ou	nace (or) (Litter, ML	1400)						i (Explaiii i	ii i kemanoj	
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	d or problema	atic.			
Pootriotivo I	aver (if about ad)									
	.ayer (if observed):									
Type:			<u></u>						., .,	
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
temarks:										
omarno.										

Project/Site:	19020	0 - South Ripley		City/Coun	itv:	Chautaugua	County	Sampling Date:	07/21/2020
Applicant/Owner:			ectGen LLC	,			ate: New York		052-2U
Investigator(s):	Matt Sr	oadoni & Sam Parker		Section, T	ownship, Ran			wn of Ripley	
Landform (hillslope, ter			Local re		ve, convex, no	·	Convex	Slope	: (%): 3-5
Subregion (LRR or MLI			Lat:	•	9730557	Long:	-79.715196		` '
Soil Map Unit Name:	,		Busti silt Loan	n,		_	NWI classification	on:	
Are climatic / hydrologic	c conditions on t	the site typical for this	time of year?	Yes X	(No	(If no,	_ explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantl	ly disturbed			cumstances" prese		X No
Are Vegetation				roblematic?	? (I	f needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - At	tach site map sh	owing sam	npling po	int locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetati		Yes			Is the Samp	-		·	
Hydric Soil Present?		Yes	No X	-	within a Wet		Yes	NoX	
Wetland Hydrology F		Yes	No X	_		al Wetland Site			_
- Trouding Try droidgy T				_		ai vvolidira ole			
Remarks: (Explain al	Iternative proced	dures here or in a sepa	rate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
		required; check all that	t annly)				Secondary Indica	ators (minimum of	two required)
Surface Water (required, crieck all tria	Water-Staine	d Leaves (F	30)			Cracks (B6)	two required)
High Water Tab	. ,		Aquatic Faun	`	33)			atterns (B10)	
Saturation (A3)		_	Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Su		C1)			Water Table (C2)	
	,	_	-			· (C2)			
Sediment Depo				-	on Living Root	s (C3)	Crayfish Bu		(00)
Drift Deposits (E	•		Presence of I			0.01		/isible on Aerial Im	
Algal Mat or Cru		_			n Tilled Soils (0	36)		Stressed Plants (D	1)
Iron Deposits (E	-		Thin Muck Su	, ,				Position (D2)	
	ole on Aerial Ima		Other (Explai	in in Remarl	ks)		Shallow Aqu		
Sparsely Vegeta	ated Concave S	urface (B8)						aphic Relief (D4)	
							FAC-Neutra	l lest (D5)	
Field Observations	:								
Surface Water Prese	ent? Ye	es No X	Depth (inch	es):					
Water Table Present	? Ye	es No X	Depth (inch	es):					
Saturation Present?	Ye	es No X	Depth (inch		_	Wetland Hyd	rology Present?	Yes	No X
(includes capillary fri					_	,			
()									
Describe Recorded [Data (stream gai	uge, monitoring well, a	erial photos, p	orevious ins	pections), if a	vailable:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 052-2U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	20	Yes	FAC	Total Number of Dominant
2. Acer saccharum / Sugar maple	15	Yes	FACU	Species Across All Strata: 6 (B)
3. Prunus serotina / Black cherry	15	Yes	FACU	
4. Fraxinus pennsylvanica / Green ash	5	No	FACW	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:16.7 (A/B)
6				
7	- ·			Prevalence Index worksheet:
	55	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x1 = 0
Hamamelis virginiana / American witch-hazel	10	Yes	FACU	FACW species 5 x 2 = 10
Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	FAC species 20 x 3 = 60 FACU species 65 x 4 = 260
3			_	UPL species 0 x 5 = 0
4				Column Totals: 90 (A) 330 (B)
5			<u> </u>	Prevalence Index = B/A = 3.67
6.				Frevalence index – B/A – 3.07
7				Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5		.,	5.0	2 - Dominance Test is >50%
1. Poa / Bluegrass	20	Yes	FACU	3 - Prevalence Index ≤3.0¹
2		-		4 - Morphological Adaptations (Provide supporting
3.		-		Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8.				Definitions of Vegetation Strata
9.				
10.	-		- ·-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	_		 	breast height (DBH), regardless of height.
12	20	= Total Cov	er	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)		_ = 10(a) COV	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3	<u> </u>	_	- -	Woody vines - All woody vines greater than 3.28 ft in height.
4.	-, -	-	- -	neight.
· ·	0	= Total Cov	er	Hydrophytic
			O.	Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: ____ 052-2U

	cription: (Describe to the Matrix	he depth nee		ne indicator x Features	or confirm t	he absen	ice of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	x realures %	Type ¹	Loc²	Texture	Rema	rke
			Color (moist)		Type:	LOC-		Rema	IKS
0-1	10YR 2/1	100					Loam		
1-5	10YR 4/4	100					Loam		
	_	· -							
	_			_					
	_	<u></u> .							
	_								
	_								
		·							
	-	· ·							
-		· -							
¹Type: C=Co	ncentration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Location:	PL=Pore Lining,	M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hyd	Iric Soils³:
Histoso			Polyvalue Belov	v Surface (S	8) (LRRRM	ILRA 149		(A10) (LRR K, I	
	pipedon (A2)	•	Thin Dark Surfa	•			· —	rie Redox (A16)	•
	listic (A3)		Loamy Mucky N			. +00)			63) (LRR K, L, R)
	en Sulfide (A4)	•	Loamy Gleyed		(LIXIX IX, L)			ice (S7) (LRR K	
	ed Layers (A5)	-							
	• • •		Depleted Matrix					Below Surface (S	
	ed Below Dark Surface (A11)	Redox Dark Su					Surface (S9) (LI	
	ark Surface (A12)	-	Depleted Dark						12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress	ions (F8)					F19) (MLRA 149B)
	Gleyed Matrix (S4)								A 144A, 145, 149B)
	Redox (S5)							t Material (F21)	
	d Matrix (S6)							ow Dark Surface	
Dark Su	urface (S7) (LRR R, ML	_RA 149B)					Other (Exp	olain in Remarks)	
³Indicators o	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed o	or problem	natic.		
Restrictive I	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Prese	nt? Yes	No X
	, <u> </u>								
Remarks:									
	Root refusal at 5								

Applicant/Owner	Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/21/2020
Investigator(s):			ConnectGen LLC	, , _	•			
Landform (fillslope, terrace, etc): Bowl-shaped depression Local relief (concave, convex, none): Concave Slope (%): 0-3 Subregion (LRR or MLRA): LRR MLRA 139 Lat: 42.19713709 Long: 7-9.71518684 Datum: NAD 83 Solf Map Unit Name: Langford silf loam, 8-15 percent slopes NW classification: PFO Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (fin o, explain in Remarks.) Are Vegetation Solf on the site typical for this time of year? Yes X No (fin o, explain in Remarks.) Are Vegetation Solf on the site typical for this time of year? Yes X No (fin o, explain in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (fin solf present? Yes (fin solf present? Yes X No (fin solf present? Yes No X Depth (inches): (fin solf present? Ye	• • • • • • • • • • • • • • • • • • • •			Section, Townsh			_	
Subregion (LRR or MLRA):	•							(%): 0-3
Soil May Drift Name:								` '
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X Are Vegetation Soil or hydrology significantly disturbed? Are Vegetation Soil or hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No I Is the Sampled Area within a Wettland? Yes X No Wetland Hydrology Present? Yes X No You Yes X Wetland Hydrology Present? Yes X No You Depth (Inches): Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No X Depth (Inches): Wetland Hydrology Present? Yes X No You Deposite Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					<u> </u>			
Are Vegetation Soil or Hydrology significantly disturbed? (If needed, explain any answers in Remarks.) Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Vegetation Present? Yes X No Standard Site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Standard Site Method Soil Present? Yes X No Standard Site Method					No (If no	_	-	
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No stitled and the Hydrology Present? Yes X No stitled Hydrology Indicators (minimum of one required; check all that apply) Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) X Drainage Patterns (B10) Saturation (A3) Mart Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation (Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stitled or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	• •	• •	•				,	(No
Summary OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	·							<u> </u>
Hydrophytic Vegetation Present? Yes X No within a Wetland? Yes X No wetland Site ID: Wetland 52 Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland 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) X Drainage Patterns (B10) Saturation (A3) Mart Deposits (B15) Most Time Lines (B16) Weter Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitlard (D3) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Wetland Pydrology Present? Yes X No Metland Pydr						•	•	
Hydrology Present? Yes X No If yes, optional Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Wetland 52 Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) X Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Tim Lines (B16) Saturation (A3) Marl Deposits (B15) Moss Tim Lines (B16) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Sturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metland Bite ID: Wetland Hydrology Present? Yes X No Metlan						cts, important	icatures, etc.	
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Wetland 52					•			
Remarks: (Explain alternative procedures here or in a separate report.) Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)								_
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Sutrace Water (A1) Saturation (A3) Water Deposits (B15) Water Marks (B1) Water Table (A2) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced fron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Javier Marks (B1) Wetland Hydrology Present? Yes No Wetland Phydrology Present? Yes No Wetland Hydrology Pre	Wetland Hydrology Prese	nt? Yes	X No	_ If yes	, optional Wetland Sit	te ID:	Wetland 52	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Sutrace Water (A1) Saturation (A3) Water Deposits (B15) Water Marks (B1) Water Table (A2) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced fron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Javier Marks (B1) Wetland Hydrology Present? Yes No Wetland Phydrology Present? Yes No Wetland Hydrology Pre	Remarks: (Explain alterna	tive procedures here or in a	separate report)	•				
Wetland 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) X Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inn Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches):	(=							
Wetland 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) X Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inno Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No Wetland Hydrology Present? Yes X No Wetland Hydrology P								
Wetland 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) X Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inn Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Prese	LIVEROLOCY							
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)								
Surface Water (A1)								
High Water Table (A2)	Primary Indicators (minim	um of one required; check a	ill that apply)			Secondary Indica	ators (minimum of the	wo required)
Saturation (A3)	<u> </u>			` '				
Water Marks (B1)	_ ·	<u>'</u>)		` '		X Drainage Pa	atterns (B10)	
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Provious inspections), if available: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				` '			` '	
Drift Deposits (B3)	Water Marks (B1)		Hydrogen Sul	fide Odor (C1)		Dry-Season	Water Table (C2)	
Algal Mat or Crust (B4)	Sediment Deposits (I	32)	Oxidized Rhiz	ospheres on Livi	ng Roots (C3)	Crayfish Bu	rrows (C8)	
Iron Deposits (B5)	Drift Deposits (B3)		Presence of F	Reduced Iron (C4))	Saturation V	isible on Aerial Ima	agery (C9)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Shallow Aquitard (D3) Microtopographic Relief (D4) X FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No	Algal Mat or Crust (B	4)	Recent Iron R	teduction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D1)
Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) X FAC-Neutral Test (D5)	Iron Deposits (B5)					X Geomorphic	Position (D2)	
Field Observations: Surface Water Present?	Inundation Visible on	Aerial Imagery (B7)	Other (Explain	n in Remarks)		Shallow Aqu	uitard (D3)	
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sparsely Vegetated 0	Concave Surface (B8)				Microtopogr	aphic Relief (D4)	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						X FAC-Neutra	l Test (D5)	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observations							
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Voc. No.	V Donth (inch	20):				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			· ·	· ———	Wetland Hye	dralagy Brasant?	Voc. V	No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		res NO _	A Deptil (inche	=5).	vveiianu nyo	arology Present?	res	NO
	(includes capillary ininge)							
	Describe Recorded Data	stream gauge, monitoring v	vell, aerial photos, p	revious inspection	ns), if available:			
Remarks:			, , , , , , ,	•	,,			
Remarks:								
	Remarks:							

Dominant Species? Yes Yes Tes Total Cov Yes	er FACW	Dominance Test worksheet: Number of Dominant Species 4 (A) Total Number of Dominant 4 (B) Percent of Dominant Species 4 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0 OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0 Column Totals: 155 (A) 380 (B)
Species? Yes Yes The second of the second o	Status FAC FACW er	That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 OBL species 0 FACW species 150 FACW species 150 FACU species 10 x 4 = 40 40 UPL species 0 x 5 = 0 0
Species? Yes Yes The second of the second o	Status FAC FACW er	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
Yes Yes Total Cov	FACW FACW er	Species Across All Strata: 4 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
Yes = Total Cov Yes	FACW er FACW	Species Across All Strata: 4 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	er FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	er FACW	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	er FACW	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	er FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	FACW	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
= Total Cov	FACW	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
Yes	FACW	OBL species 0 x 1 = 0 FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
		FACW species 95 x 2 = 190 FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
		FAC species 50 x 3 = 150 FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
		FACU species 10 x 4 = 40 UPL species 0 x 5 = 0
		UPL species 0 x 5 = 0
		Column Totals: 155 (A) 380 (B)
		Column rotals. 155 (A) 500 (B)
		Prevalence Index = B/A = 2.45
= Total Cov	er	Hydrophytic Vegetation Indicators:
_		1 - Rapid Test for Hydrophytic Vegetation
Yes	FACW	X 2 - Dominance Test is >50%
		X 3 - Prevalence Index ≤3.0¹
		4 - Morphological Adaptations (Provide supporting
	FACIL	Problematic Hydrophytic Vegetation¹ (Explain)
	1700	
		¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	 	breast height (DBH), regardless of height.
- Total Cav		Sapling/shrub - Woody plants less than 3 in. DBH and
= 10tal C0v	eı	greater than or equal to 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless of
	 	size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
		height.
		Hardran badis
= Total Cov	er	Hydrophytic
		Vegetation
		Present? Yes No
	= Total Cov	No FACU

 SOIL
 Sampling Point:
 052-2W

Depth	ription: (Describe to the Matrix			x Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 3/2	100					Loam			
8-18	10YR 3/2	85	10YR 4/6	15	D	M	Loam			
					. <u> </u>					
					. <u> </u>					
	·				·					
	· ·				·					
	· ·				·					
	· ·				·					
	· -									
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ition: PL=P	ore Lining, M=M	latrix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149E) (LRR K, L, MI	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LR	-
	stic (A3)		Loamy Mucky N			1400)			at or Peat (S3) (
	en Sulfide (A4)		Loamy Gleyed		(=:\:\ I L)				31	, L, N)
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8) (I BB K I \
		۸11)							· , •	
	d Below Dark Surface (/	AII)	Redox Dark Su						ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark					ū	Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	-RA 149B)					Other	(Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	ss disturbed	or problem:	atic			
		and Wolland	- Injuriology made 50 p			T problem				
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:						L				
Cinano.										

Project/Site:	19020	- South Ripley	Cit	y/County:	Chautauqua C	County	Sampling Date:	07/20/2020
Applicant/Owner:		Conn	ectGen LLC	, , <u> </u>	•	ite: New York		053-1U
Investigator(s):		loni & Josh Marchne	r Se	ction, Township, Ra			wn of Ripley	
Landform (hillslope, terr				(concave, convex,		Convex		(%): 2-5
Subregion (LRR or MLR			Lat:	•		-79.7092920		` '——
Soil Map Unit Name:	· —		Erie silt loam			NWI classification		
Are climatic / hydrologic		e site typical for this	time of year? Yes	s X No	(If no,	- explain in Remark	s.)	
Are Vegetation	. Soil	. or Hydrology	significantly dis			cumstances" prese	•	(No
		, or Hydrology				in any answers in		
SUMMARY OF FIN		-			•	-	•	
		-			·	to, important		
Hydrophytic Vegetatio	on Present?	Yes		Is the Sam	-	Vaa	No. V	
Hydric Soil Present?		Yes		within a W			NoX	_
Wetland Hydrology P	resent?	Yes	_ NoX	ii yes, opud	onal Wetland Site	: וטו:		
Remarks: (Explain alt	ternative procedu	res here or in a sepa	arate report.)					
, ,		·	. ,					
HYDROLOGY								
Wetland Hydrology								
Primary Indicators (m		quired; check all that					ators (minimum of t	wo required)
Surface Water (A	,		Water-Stained Le	` '			l Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B				atterns (B10)	
Saturation (A3)			Marl Deposits (B1	•		Moss Trim L	` '	
Water Marks (B1	•		Hydrogen Sulfide				Water Table (C2)	
Sediment Depos	` '		•	heres on Living Ro	ots (C3)	Crayfish Bu		
Drift Deposits (B	•		Presence of Redu	iced Iron (C4)		Saturation \	isible on Aerial Ima	igery (C9)
Algal Mat or Cru	ıst (B4)	_	Recent Iron Redu	ction in Tilled Soils	(C6)		Stressed Plants (D1)
Iron Deposits (B	5)	_	Thin Muck Surfac			Geomorphic	Position (D2)	
		ery (B7)	Other (Explain in	Remarks)		Shallow Aqu	uitard (D3)	
Inundation Visibl	le on Aerial Imag							
	le on Aerial Imag ited Concave Sur					Microtopogr	aphic Relief (D4)	
	-					Microtopogr FAC-Neutra		
Sparsely Vegeta	ated Concave Sur							
Sparsely Vegeta Field Observations:	ated Concave Sur	rface (B8)	Don'th (inches):					
Sparsely Vegeta Field Observations: Surface Water Preser	nt? Yes	rface (B8)	- ' ' '					
Field Observations: Surface Water Present? Water Table Present?	nt? Yes	No X No X	Depth (inches):		Westernality	FAC-Neutra	I Test (D5)	No. V
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes Yes	No X No X			Wetland Hydr			No X
Field Observations: Surface Water Present? Water Table Present?	nt? Yes Yes	No X No X	Depth (inches):		Wetland Hydr	FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No <u>X</u>
Field Observations: Surface Water Preser Water Table Present? Saturation Present?	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Preser Water Table Present? Saturation Present? (includes capillary frin	nt? Yes Yes	S No X No X No X No X	Depth (inches): Depth (inches):			FAC-Neutra	I Test (D5)	No X

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	Tildt Ale ODL, I AOW, OI I AO.
riot size	/000101	_ орсою.	Otatus	Total Number of Dominant
·				
				Species Across All Strata: 1 (B)
				D. I. CD. I. A Consistent
l				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
). 				Provintance Index waylohaati
· .				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 5 x 1 = 5
l				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.				FACU species 75 x 4 = 300
•				UPL species 0 x 5 = 0
•				Column Totals: 90 (A) 335 (B)
•				Prevalence Index = B/A = 3.72
). 				T TOVAROTION ITTACK S.T
,				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5				2 - Dominance Test is >50%
. Solidago canadensis / Canada goldenrod	70	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	
3. Trifolium pratense / Red clover	5	No	FACU	4 - Morphological Adaptations (Provide supporting
Scirpus atrovirens / Green bulrush	5	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
•				
5.				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
<u>'</u>				
B				Definitions of Vegetation Strata
)				
0.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1.				breast height (DBH), regardless of height.
2.	_	_	-	Sapling/shrub - Woody plants less than 3 in. DBH and
	90	= Total Cov	- ———	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size: 30)		_ = 1010		
<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
l				
	0	_ = Total Cov	er	Hydrophytic
	-	=		Vegetation
				Present? Yes NoX
·		= Total Cov	er	height. Hydrophytic Vegetation

SOIL Sampling Point: 053-1U

Depth	ription: (Describe to the Matrix	- 1		x Features				•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-6	10YR 4/3	100					Loam				
6-18	10YR 5/3	90	7.5YR 5/6	10	C	M	Loam				
	· -										
	· ·										
	· -										
	· -										
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, N	/I=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hyd	ric Soils³:	
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R. I	MLRA 149E			-	., MLRA 149I	B)
	oipedon (A2)		Thin Dark Surfa							(LRR K, L, R	-
	stic (A3)		Loamy Mucky N			1400)				3) (LRR K, L	
	en Sulfide (A4)		Loamy Gleyed		(=:\:\ I L)				7) (LRR K ,		_,,
	d Layers (A5)		Depleted Matrix					•		L) 8) (LRR K, L	
	d Layers (A5) d Below Dark Surface (Λ11)	Redox Dark Su	,					ce (S9) (LR		-)
		A11)								12) (LRR K ,	I D\
	ark Surface (A12)		Depleted Dark					ū	•	, .	
	Mucky Mineral (S1)		Redox Depress	ions (F8)						=19) (MLRA	
	Gleyed Matrix (S4)									A 144A, 145,	1496)
	Redox (S5)							Parent Mat		(TE40)	
	Matrix (S6)	DA 440D)							ark Surface (1F12)	
Dark Su	rface (S7) (LRR R, ML	_KA 149B)					Other	(Explain if	n Remarks)		
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.				
5											
	.ayer (if observed):										
Type:	ah aa\.						Undeia Cail D		Vaa	Na	V
Depth (in	cnes):						Hydric Soil P	resent?	Yes	No _	
Remarks:											

Project/Site:	19020	- South Ripley		City/Coun	ity:	Chautauqua (County	Sampling Date:	07/20/2020
Applicant/Owner:		. ,	ConnectGen LLC				ate: New York	. · · · · -	053-1W
Investigator(s):		JAM MS		Section, T	ownship, Ran	ge:	To	wn of Ripley	
Landform (hillslope, terra	ace, etc): E	Bowl shaped der	ression Local r	-			Concave	Slope	: (%): 3-10
Subregion (LRR or MLR		RR R MLRA 13			7741556	Long:	-79.709507		· ·
Soil Map Unit Name:	,		Ashville silt loa				NWI classificati		PEM
Are climatic / hydrologic	conditions on th	ne site typical fo	r this time of year?	Yes X	(No	(If no,	– explain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydrology	significant	ly disturbed	? A	re "Normal Cire	cumstances" pres	ent? Yes	X No
			naturally p				ain any answers ir		
SUMMARY OF FIN	_	_				-	-	•	
Hydrophytic Vegetatio		Yes			Is the Samp		, p	,	
Hydric Soil Present?	iii rieseiii:	Yes	X No		within a Wet		Yes X	No	
Wetland Hydrology Pr	ocont?	Yes	X No	-		al Wetland Site		053	_
vvetiand riyurology ri		165	<u> </u>	_	ii yes, option	ai vvetianu Site		000	
Remarks: (Explain alte PEM we	ernative procedi tland 053	ures here or in a	a separate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi		equired; check a	all that apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A		· · · · · ·	Water-Staine	d Leaves (E	39)			il Cracks (B6)	
High Water Table	•		Aquatic Faur	•	,			atterns (B10)	
Saturation (A3)	` ,		Marl Deposit					Lines (B16)	
Water Marks (B1)		Hydrogen Su		C1)		Dry-Season	n Water Table (C2)	
Sediment Depos	its (B2)		X Oxidized Rhi	zospheres o	on Living Root	s (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3	3)		Presence of				Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron F	Reduction in	n Tilled Soils (0	C6)	Stunted or	Stressed Plants (D	1)
Iron Deposits (B5	5)		Thin Muck S	urface (C7)			X Geomorphi	c Position (D2)	
Inundation Visible	e on Aerial Imaç	gery (B7)	Other (Explai	in in Remarl	ks)		Shallow Aq	uitard (D3)	
Sparsely Vegetat	ted Concave Su	rface (B8)					Microtopog	raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Presen	ıt? Ye	s No	X Depth (inch	ies):					
Water Table Present?			X Depth (inch	· -					
Saturation Present?	Ye		X Depth (inch	· —		Wetland Hvd	rology Present?	Yes X	No
(includes capillary frin						,	,		
Describe Recorded Da	ata (stream gau	ge, monitoring v	well, aerial photos, p	previous ins	pections), if a	/ailable:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:053-1W
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Total Number of Dominant
•				Species Across All Strata: 7 (B)
3.				
4.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 57.1 (A/B)
•				That Ale ODE, FROM, OF FREE
7.				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ 10101.001	Ci	OBL species 40 $x = 40$
1. Salix / Willow	20	Yes		FACW species 10 x 2 = 20
				FAC species 10 x 3 = 30
2.		_		FACU species 15 x 4 = 60
3. 4.				UPL species 0 x 5 = 0
				Column Totals: 75 (A) 150 (B)
				Prevalence Index = B/A = 2.0
7		Total Cov		Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	45		C.D.I	X 2 - Dominance Test is >50%
Carex vulpinoidea / Fox sedge, Brown fox sedge	15	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
2. Salix / Willow	10	Yes		4 - Morphological Adaptations (Provide supporting
3. Solidago rugosa / Wrinkle-leaf goldenrod	10	Yes	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
4. Juncus effusus / Common bog rush, Soft or lamp rush	10	Yes	OBL	
5. Carex lurida / Shallow sedge	10	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must
6. Solidago canadensis / Canada goldenrod	10	Yes	FACU	be present, unless disturbed or problematic.
7. Phleum pratense / Common timothy, Cultivated timothy	5	No	FACU	be present, unless disturbed of problematic.
8. Eupatorium perfoliatum / Common boneset	5	No	FACW	Definitions of Vegetation Strata
9. Scirpus atrovirens / Green bulrush	5	No	OBL	
10. Solidago gigantea / Smooth goldenrod	5	No	FACW	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	85	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1.			·	size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
		=		Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

 SOIL
 Sampling Point:
 053-1W

Depth	ription: (Describe to the Matrix			r Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 3/1	90	7.5YR 4/6	10	С	PL,M	Loam			
6-18	10YR 4/2	60	7.5YR 5/8	40	C	M	Loam			
	<u></u>		-							
	· -									
		·						-		
		. ———		-						
		. ———		-						
Type: C=Co	 ncentration, D=Depletio	n. RM=Redi	uced Matrix. MS=Masl	ked Sand Gr	ains.	 -	²Loca	tion: PL=F	Pore Lining, M=I	Matrix.
•	·		,							
lydric Soil I									ematic Hydric	
Histosol	• •		Polyvalue Belov) (LRR K, L, N	•
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LF	
	istic (A3)		Loamy Mucky N		(LRR K, L)				at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N						(CO)	
	d Layers (A5)	۸ 4 4 \	X Depleted Matrix X Redox Dark Sur						v Surface (S8)	
	d Below Dark Surface (/ ark Surface (A12)	AII)	Depleted Dark Sur						ce (S9) (LRR	N, L) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi					•	, ,	(LKK K, L, K) (MLRA 149B)
	Gleyed Matrix (S4)		Nedox Depressi	10113 (1 0)						44A, 145, 149B)
	Redox (S5)								erial (F21)	147, 140, 1400)
	Matrix (S6)								ark Surface (TF	12)
	rface (S7) (LRR R, ML	-RA 149B)							n Remarks)	,
	(, (, ,	,						(,	
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
Restrictive L	_ayer (if observed):									
Type:	,									
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
	, <u></u>									-
Remarks:										

Project/Site:	19020	- South Ripley		City/Count	tv:	Chautauqua (County	Sampling Date:	07/21/2020
Applicant/Owner:			nnectGen LLC	,	·		ate: New York		054-1U
Investigator(s):		Matt Spadoni		Section, To	ownship, Ran			wn of Ripley	
Landform (hillslope, terr		•	Local re		ve, convex, no		Convex	Slope	e (%): 0-5
Subregion (LRR or MLF		RR R MLRA 139	Lat:	-	9880291		-79.716985	•	(
Soil Map Unit Name:	′ 		silt loam, 3-8 pe				NWI classification		
Are climatic / hydrologic	conditions on th					(If no,	- explain in Remark	(s.)	
Are Vegetation		* *	•				cumstances" prese	•	X No
		, or Hydrology					ain any answers in		
SUMMARY OF FIN						· ·	-	•	
Hydrophytic Vegetation		Yes	No X		Is the Sample		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	
Hydric Soil Present?	Jiii ieseitt:	Yes	NoX	_	within a Wet		Yes	No X	
Wetland Hydrology P	resent?	Yes	No X	_		al Wetland Site			_
Trottana riyarology r				_		ur vvollaria olic			
Remarks: (Explain all	ternative procedu	res here or in a seg	parate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
Primary Indicators (m		aguired: abook all th	at apply)				Socondary India	ators (minimum of t	two required)
Surface Water (A		squireu, check all th	Water-Staine	d Leaves (B	30/			ators (minimum of t l Cracks (B6)	.wo required)
High Water Table	,		_ Aquatic Faun	,	39)			atterns (B10)	
Saturation (A3)	C (AZ)		Marl Deposits				Moss Trim I		
Water Marks (B	1)		Hydrogen Su		C1)			Water Table (C2)	
Sediment Depos	,	_	_		on Living Root	s (C3)	Crayfish Bu		
Drift Deposits (B			Presence of F		-	3 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•	_	_		Tilled Soils (0	26)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su			,		Position (D2)	• ,
I — ' '	le on Aerial Imag	uerv (B7)	Other (Explain	` '	ks)		Shallow Aqu		
	ated Concave Sur	· · · · · —	(-,			aphic Relief (D4)	
		,					FAC-Neutra		
Field Observations:									
Surface Water Preser		s NoX		-					
Water Table Present?		s NoX	_ ' '	· —					
Saturation Present?	Yes	s NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frir	ige)								
Describe Recorded D	Data (stream gau	ae. monitorina well.	aerial photos, p	revious insi	pections), if a	/ailable:			
	(-1	g-,,	, р, р		,				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 054-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Prunus serotina / Black cherry	30	Yes	FACU	Total Number of Dominant
Betula alleghaniensis / Yellow birch	20	Yes	FAC	
3.				Species Across All Strata:5 (B)
	_	-	 	Description of Description of Opening
4		_		Percent of Dominant Species
5	_			That Are OBL, FACW, or FAC: 40.0 (A/B)
6		_		Prevalence Index worksheet:
7	_			
	50	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Hamamelis virginiana / American witch-hazel	20	Yes	FACU	FACW species 0 x 2 = 0
2. Rosa multiflora / Multiflora rose, Multiflora rosa	40	Yes	FACU	FAC species 30 x 3 = 90
3. Fagus grandifolia / American beech	10	No	FACU	FACU species120 x 4 =480
4.				UPL species 0 x 5 = 0
5.				Column Totals:150 (A)570 (B)
6.				Prevalence Index = B/A = 3.8
7				
1.	70	= Total Cov	or	Hydrophytic Vegetation Indicators:
Harb Stratum (Diat aiza: E)		_ = 10(a) COV	CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	40	V	E4.0	2 - Dominance Test is >50%
Pyrola americana / American wintergreen	10	Yes	FAC	3 - Prevalence Index ≤3.0¹
2	_			4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4	_	_		
5				¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7				be present, unless disturbed of problematic.
8.				Definitions of Vegetation Strata
9.				Dominiono or rogotation otrata
10.	_			Troe Woody plants 2 in (7.6 cm) or more in diameter at
11.		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		-		
12	10	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Mandy Vino Chrotyma (Dlot size)	10	_ = 10(a) C0V	CI	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.	_			size, and woody plants less than 3.28 ft tall.
2		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 054-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) Type¹ Loc² Texture Remarks 10YR 4/3 0-18 100 Loam

	· ——— —— —— ·	
¹Type: C=Concentration, D=Depletion, RM=Rec	luced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R,MLRA 1498) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetlar	d hydrology must be present, unless disturbed or problem	atic.
Restrictive Layer (if observed):		
Type:		Hydric Soil Present? Yes NoX
Remarks:		

Project/Site:	19020 - South F	Ripley	City/County:	Chautauqua	County	Sampling Date:	07/21/2020
Applicant/Owner:		ConnectGen LLC		· · · · · · · · · · · · · · · · · · ·	tate: New York	· · · -	054-1W
Investigator(s):		doni	Section, Townshi			vn of Ripley	
•	ace, etc): Bowl-shap				Concave		(%): 0-3
Subregion (LRR or MLR						 Datum	· ·
	,				NWI classification		PSS
	conditions on the site typ	•	•	No (If no			
	, Soil, or Hydr	•			rcumstances" prese	•	. No
	, Soil, or Hydr				lain any answers in		
	DINGS - Attach site				•	•	
		-			oto, important	ioutui oo, otoi	
Hydrophytic Vegetatio		es X No es X No		Sampled Area	Vaa V	No	
Hydric Soil Present?		·		a Wetland?	Yes X	_	_
Wetland Hydrology Pr	resent? Ye	es <u>X</u> No	ii yes,	optional Wetland Sit	.e iD:	Wetland 54	
Remarks: (Explain alte	ernative procedures here	or in a separate report.)				
	,		,				
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology I							
	nimum of one required; c					ators (minimum of to	wo required)
X Surface Water (A	•		ned Leaves (B9)			Cracks (B6)	
High Water Table	(A2)	Aquatic Fa			X Drainage Pa		
X Saturation (A3)		Marl Depos	` '		Moss Trim L		
Water Marks (B1		Hydrogen	Sulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	` '		hizospheres on Livin	g Roots (C3)	Crayfish Bu		
Drift Deposits (B3	3)	Presence of	of Reduced Iron (C4)		X Saturation V	isible on Aerial Ima	igery (C9)
Algal Mat or Crus	it (B4)	Recent Iro	Reduction in Tilled	Soils (C6)	X Stunted or S	Stressed Plants (D1)
Iron Deposits (B5	i)	Thin Muck	Surface (C7)		X Geomorphic	Position (D2)	
X Inundation Visible	e on Aerial Imagery (B7)	Other (Exp	lain in Remarks)		Shallow Aqu	uitard (D3)	
X Sparsely Vegetat	ed Concave Surface (B8))			Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Presen	it? Yes X	No Donth (in	ches): 0-3				
Water Table Present?	t? Yes X Yes X	' ' '	, 	-			
Saturation Present?	Yes X	No Depth (in Depth (in	,	Wetland Hy	dralagy Brassnt2	Voc. V	No
		No Deptil (iii	iles). 12	welland nyo	drology Present?	Yes X	No
(includes capillary fring	ge)						
Describe Recorded Da	ata (stream gauge, monit	oring well, aerial photos	, previous inspection	s), if available:			
	· • • • • • • • • • • • • • • • • • • •	, ,		,			
Remarks:							
1							

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species Status Total Number of Dominant Species Status Total Number of Dominant Species Account Account	/EGETATION - Use scientific names of plants.				Sampling Point: 054-1W
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 2 (B)		Absolute	Dominant	Indicator	Number of Dominant Species
Species Across All Strata: 2	Tree Stratum (Plot size:)	%Cover	Species?	Status	
Percent of Dominant Species That Ave OBL_FACW, or FAC:	1.	_			Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)	2	_			Species Across All Strata: 2 (B)
That Are OBL, FACW, or FAC: 50.0 (WB)	3				
Prevalence Index worksheet: Total ' Cover of: Multiply by: Total ' Cover of: Coll. species 65	4		_		·
Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size:15) 1. Rosa multiflora / Multiflora rose, Multiflora					That Are OBL, FACW, or FAC: (A/B)
Total Cover Sapling/Shrub Stratum (Plot size:15)					Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size:	1.		- Total Cau		
Rosa multiflora / Multiflora rose, Multiflora rose Section S	Sanling/Shruh Stratum (Plot size: 15)		_ = 10(a) Cov	еі	
2.		25	Yes	FACU	· — — — — — — — — — — — — — — — — — — —
A		-		17100	FAC species 0 x 3 = 0
4.	3.				FACU species 25 x 4 = 100
5. Column Totals: 115 (A) 215 (B) 7. 25 = Total Cover Hydrophytic Vegetation Indicators: 1. All Pyrophytic Ve					UPL species 0 x 5 = 0
6. 7.	E				Column Totals:115
7.					Prevalence Index = B/A = 1.87
Plerb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index <3.0" 4 - Morphological Adaptations (Provide supporting 5 - Provide supporting	_				Lludronhutia Varatation Indicators
Myosotis scorpioides / Forget me not, Water forget-me-not 15		25	= Total Cov	er	
1. Myosotis scorpicides / Forget me not, Water forget-me-not 65 Yes OBL 2. Polygonum virginianum / Jumpseed 15 No FACW 3. Bidens frondosa / Sticktight 10 No FACW 4.	Herb Stratum (Plot size: 5				
2. Polygonum virginianum / Jumpseed 3. Bidens frondosa / Sticktight 4.			Yes	OBL	
Second Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation (Explain)		15	No	FACW	
5	3. Bidens frondosa / Sticktight	10	No	FACW	
Thick cators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	4	_			residential right of regulation (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.		_	_		¹Indicators of hydric soil and wetland hydrology must
8	6		_		,
9.			_		
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Woody vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation		-			Definitions of Vegetation Strata
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	10.	-	_		
Woody Vine Stratum (Plot size:30) 1	11.		_	<u> </u>	
Woody Vine Stratum (Plot size: 30) 1.	12		- Total Cov		
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation			_		Herb - All herbaceous (non-woody) plants, regardless of
3		-	_		
4. O = Total Cover Hydrophytic Vegetation	2.	-		<u> </u>	
0 = Total Cover Hydrophytic Vegetation	4	-	_	-	neight.
Vegetation	·		= Total Cov	er	Hydrophytic
				0.	

SOIL Sampling Point: ____054-1W

Depth	ription: (Describe to the Matrix	<u> </u>		x Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 4/2	85	10YR 5/8	15	С	PL,M	Clay			
				 						
			•							
Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=F	Pore Lining, M=Ma	atrix.
Ludvia Cail I	malianta un .						lu di a ata w	- for Drobl	amatia Urabia C	-:1-3-
lydric Soil I			Dalasaksa Dalas	·· 0···-f (00		MI DA 440E			ematic Hydric S	
Histosol	` '		Polyvalue Belov) (LRR K, L, ML	-
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRF	
Black Hi			Loamy Mucky M		LRR K, L)				at or Peat (S3) (L	RR K, L, R)
	en Sulfide (A4)		Loamy Gleyed I					-	(LRR K, L)	
	d Layers (A5)		X Depleted Matrix						v Surface (S8) (L	
	d Below Dark Surface (A	A11)	Redox Dark Sui						ce (S9) (LRR K,	
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	lucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 144	A, 145, 149B)
	Redox (S5)								erial (F21)	
	Matrix (S6)								ark Surface (TF12	2)
Dark Su	rface (S7) (LRR R, ML	-RA 149B)					Othe	r (Explain i	n Remarks)	
	h				1:-4		4! -			
indicators of	hydrophytic vegetation	and welland	nydrology must be p	resent, unies	s disturbed	or problema	auc.			
Restrictive L	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
temarks:										
Ciliains.										

Project/Site:	19020 -	South Ripley	C	City/County:	Chautaugua	County	Sampling Date:	07/21/2020
Applicant/Owner:			nectGen LLC			tate: New York	-	055-1U
Investigator(s):		MS. SPF		Section, Township	-		wn of Ripley	
Landform (hillslope, ter		-, -		ef (concave, con	· •	Convex	Slope	(%): 8
Subregion (LRR or MLF			Lat:	42.20550214		-79.719984		(/
Soil Map Unit Name:	, 		Towerville silt loan			NWI classification		-
Are climatic / hydrologic	c conditions on the				No (If no	_ , explain in Remark	s.)	
Are Vegetation			•			rcumstances" prese		K No
	, Soil ,				(If needed, exp	lain any answers in		
SUMMARY OF FII						•	•	
Hydrophytic Vegetati		Yes	No X		Sampled Area	<u> </u>		
Hydric Soil Present?		Yes			a Wetland?	Yes	No X	
Wetland Hydrology F		Yes	No X		optional Wetland Sit			_
Trouding Try drology T				, 500,	Sphorial Wolland On			
Remarks: (Explain al	ternative procedur	es here or in a sep	arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (n		nuired: check all th	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (dired, cricek all tri	Water-Stained I	eaves (R9)	_		l Cracks (B6)	wo required)
High Water Table	` '	-	Aquatic Fauna	` ,			atterns (B10)	
Saturation (A3)	` '		Marl Deposits (I			Moss Trim I		
Water Marks (B			Hydrogen Sulfic	•			Water Table (C2)	
Sediment Depos	,			spheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (E			•	duced Iron (C4)	110013 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•		•	duction in Tilled S	Soils (C6)		Stressed Plants (D1	
Iron Deposits (E			Thin Muck Surfa		, one (00)		Position (D2)	,
	ole on Aerial Image	erv (B7)	Other (Explain i	, ,		Shallow Aqu		
	ated Concave Surfa			,			aphic Relief (D4)	
_ , , ,		,				FAC-Neutra		
Field Observations:								
Surface Water Prese		No X		· ———	_			
Water Table Present		NoX	_ ' '	·	_			
Saturation Present?	Yes	NoX	_ Depth (inches):	_ Wetland Hyd	drology Present?	Yes	No X
(includes capillary fri	nge)							
Describe Recorded [Data (stream gauge	e. monitoring well.	aerial photos, pre	vious inspections	s), if available:			
	(99-	-,			,,,			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:	055-1U
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0	(A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status		
Fagus grandifolia / American beech	40	Yes	FACU	Total Number of Dominant	
2. Acer saccharum / Sugar maple	30	Yes	<u>FACU</u>	Species Across All Strata: 4	(B)
Tsuga canadensis / Eastern hemlock	10	No	FACU		
4.				Percent of Dominant Species	
5		_		That Are OBL, FACW, or FAC: 0.0	(A/B)
6.				Prevalence Index worksheet:	
7	80	= Total Cov		Total % Cover of: Multiply by	v:
Sapling/Shrub Stratum (Plot size: 15)		_ = 10(a) COV	rei	OBL species 0 x 1 = 0	
1. Fagus grandifolia / American beech	15	Yes	FACU	FACW species 0 x 2 = 0	
			1700	FAC species 0 x 3 = 0	
2.		-		FACU species 100 x 4 = 40	0
3			-	UPL species 0 x 5 = 0	
5.				Column Totals: 100 (A) 40	0 (B)
6.				Prevalence Index = B/A = 4.0	
7.					
	15	= Total Cov	ver	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)	-	_		1 - Rapid Test for Hydrophytic Vegetation	
1. Thelypteris noveboracensis / New york fern	45	Yes		2 - Dominance Test is >50%	
Rubus allegheniensis / Allegheny blackberry	5	No	FACU	3 - Prevalence Index ≤3.0¹	
3.				4 - Morphological Adaptations (Provide sup	
4.				Problematic Hydrophytic Vegetation¹ (Expla	iin)
5.				11 pdicators of budgie soil and watland budgelong.	
6.				¹Indicators of hydric soil and wetland hydrology	nust
7.				be present, unless disturbed or problematic.	
8		_		Definitions of Vegetation Strata	
9				Ĭ	
10		_		Tree - Woody plants 3 in. (7.6 cm) or more in dia	ameter at
11				breast height (DBH), regardless of height.	
12		_		Sapling/shrub - Woody plants less than 3 in. DI	BH and
	50	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: 30				Herb - All herbaceous (non-woody) plants, regard	rdless of
		_		size, and woody plants less than 3.28 ft tall.	
2.				Woody vines - All woody vines greater than 3.2	.8 ft in
3		_		height.	
4		= Total Cov		Hydrophytic	
		_ = 10(a) COV	'EI	Vegetation	
				Present? Yes No X	
				100 100	
Remarks: (Explain alternative procedures here or in a separa	ite report.)				

SOIL Sampling Point: <u>055-1U</u>

Depth	ription: (Describe to the Matrix			x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-3	7.5 yr 3/1	100					Loam				
3-18	2.5 y 4/3	100					Loam				
							_				
		-									
	·										
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Locatio	n: PL=Po	ore Lining, N	Л=Matrix.	
hadria Cail I	n dia atawa						ludiantaus fe	nu Dunhla		mia Calla3:	
Hydric Soil I			Daharaha Dala	0	·	DA 440E	Indicators fo		-		0D)
Histosol			Polyvalue Belov							., MLRA 149	-
	oipedon (A2)		Thin Dark Surfa			19B)				(LRR K, L,	
	stic (A3)		Loamy Mucky N		LRR K, L)					3) (LRR K,	L, R)
	en Sulfide (A4)		Loamy Gleyed						7) (LRR K,	-	
	d Layers (A5)		Depleted Matrix						•	8) (LRR K,	L)
	d Below Dark Surface (A	A11)	Redox Dark Su						e (S9) (LR		
	ark Surface (A12)		Depleted Dark					•	•	12) (LRR F	
	lucky Mineral (S1)		Redox Depress	ions (F8)						-19) (MLRA	
	Gleyed Matrix (S4)									144A, 145	, 149B)
	Redox (S5)								erial (F21)		
	l Matrix (S6)								rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other (E	Explain in	Remarks)		
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	s disturbed or	nrohlema	atic				
			, a. e. egyaet 2e p			J. 02.0					
	.ayer (if observed):										
Type:	-h \.						Undete Oall Dec	40	V	NI-	V
Depth (in	cnes):						Hydric Soil Pres	sent?	Yes	No	X
Remarks:											

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/21/2020
Applicant/Owner:	' '	ConnectGen LLC	, , <u> </u>	· · · · · · · · · · · · · · · · · · ·	tate: New York		055-1W
Investigator(s):	Matt Spadoni & Sam Pa		Section, Township,			wn of Ripley	
Landform (hillslope, terrace,					Concave	. , ,	(%): 0-3
Subregion (LRR or MLRA):							` '
Soil Map Unit Name:					NWI classification		PFO
Are climatic / hydrologic cond				No (If no	NWY classification, explain in Remark		10
, ,	oil, or Hydrology	•	y disturbed?		rcumstances" prese	,	(No
	oil , or Hydrology				lain any answers in		<u> </u>
					•	•	
SUMMARY OF FINDIN	GS - Attach site ma			ations, transe	cts, important	reatures, etc.	
Hydrophytic Vegetation Pro	esent? Yes	X No		ampled Area			
Hydric Soil Present?	Yes	X No	within a	a Wetland?	Yes X	No	_
Wetland Hydrology Preser	t? Yes	X No	_ If yes, o	ptional Wetland Si	te ID:	Wetland 55	
Daniel (Finale) alternat		\	l .				
Remarks: (Explain alternat	ive procedures here or in a	a separate report.)					
HYDROLOGY							
Wetland Hydrology India	atore:						
Wetland Hydrology Indic		all that analys			Casandanıladisi	atawa (maimimayyaa af ta	
Primary Indicators (minimu	im of one required; check a		d Lagues (DO)	-		ators (minimum of t	wo requirea)
Surface Water (A1)		X Water-Stained	` ,			Cracks (B6)	
High Water Table (A2))	Aquatic Fauna				atterns (B10)	
X Saturation (A3)		Marl Deposits			Moss Trim L	,	
Water Marks (B1)	0)	X Hydrogen Sul		D 1 (00)		Water Table (C2)	
Sediment Deposits (E	2)		cospheres on Living	Roots (C3)	Crayfish Bu		(00)
Drift Deposits (B3)			Reduced Iron (C4)	" (00)		/isible on Aerial Ima	
Algal Mat or Crust (B4	l)		Reduction in Tilled S	oils (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Su			X Geomorphic		
Inundation Visible on	• • • •	Other (Explain	n in Remarks)		Shallow Aqu		
Sparsely Vegetated C	oncave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	V Donth (inch	oo).				
	Yes No _ Yes No		•	-			
Water Table Present?			· 	- Wetlend Hy	dralami Brasant?	Voc. V	No
Saturation Present?	Yes X No _	Depth (inche	es): <u>14</u>	_ wetland nyo	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (stream gauge monitoring v	well aerial photos p	revious inspections) if available:			
Boothbo Noothaca Bata (stroum gaago, montomig t	won, aonar priotoc, p	revieue inepediacio	,, ii availabio.			
Remarks:							
1							

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species 3	Absolute	Number of Dominant Species That Are OBL, FACW, or FAC: 3	VEGETATION - Use scientific names of plants.				Sampling Point: 055-1W
Absolute Species Status That Are OBL, FACW, or FAC: 3 (A)	Absolute Dominant Indicator Indicator That Are OBL, FACW, or FAC: 3 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 3 (A)					Dominance Test worksheet:
Absolute Species Status That Are OBL, FACW, or FAC: 3 (A)	Absolute Dominant Indicator Indicators That Are OBL, FACW, or FAC: 3 (A)	Absolute Dominant Indicator Indicator That Are OBL, FACW, or FAC: 3 (A)					
Tree Stratum (Plot size: 30 %Cover Species? Status	Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 5	Tree Stratum (Plot size: 30 %Cover Species? Status		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Species Across All Strata: Species Acros Across All Across Acros Across Across Across Across Across Across Across Across Acro	Total Number of Dominant Species Across All Strata; 5 (B)	Total Number of Dominant Species Across All Strata: 5 (B)	Troo Stratum (Plot size: 30)				Illat Ale ODL, I AOW, OI I AO.
2,	Species Across All Strata:	Species Across All Strata: 5 (8)		70COVEI	opecies:	Status	T-4-1 Number of Deminent
Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)	3	3					
Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)					Species Across All Strata: 5 (B)
That Are OBL, FACW, or FAC: 60.0 (A/B)	That Are OBL, FACW, or FAC: 60.0 (A/B)	That Are OBL, FACW, or FAC: 60.0 (A/B)					
Prevalence Index worksheet: Total 'Cover of: Multiply by: Total 'Cover of: Total 'Cover of: Collaboration of the size: 15	Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total % Cover of:	4				Percent of Dominant Species
Prevalence Index worksheet: Total & Cover Total & Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species OBL s	Prevalence Index worksheet: Total % Cover of: Multiply by: Ostaver Sapling/Shrub Stratum (Plot size:	F				That Are OBL, FACW, or FAC: 60.0 (A/B)
Prevalence Index worksheet: Total % Cover Saping/Shrub Stratum (Plot size: 15) 1. Ross multifloral Nultiflora rose, Multiflora rose,	Total Saping/Shrub Stratum (Plot size:	Provalence Index worksheet: Sapling/Shrub Stratum (Plot size:	6				
Total % Cover of: Multiply by: Multiflora rose, Multi	Total Scover of	Total & Cover of:					Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size: 15 15 16 16 16 16 16 16	Sapling/Shrub Stratum (Plot size: 15 10 Yes FACU FACW species 0 X 1 = 0 FACW species 45 X 2 = 90 FACW species 45 X 3 = 0 FACW species 45 X 4 = 60 FACW	Sapling/Shrub Stratum			= Total Cov	/er	Total % Cover of: Multiply by:
Rosa multiflora Multiflora rose, Mul	1. Rosa multiflora i Multitiflora rosa, Multiflora rosa 10	Nosa multiflora Multiflora rose, Mul	Sanling/Shruh Stratum (Plot size: 15)		_ ''	· Ci	
2. Fagus grandifolia American beech 5 Yes FACU FACU FAC species 0 x 3 = 0 FACU species 15 x 4 = 60	2. Fagus grandfolia / American beech 5 Yes FACU 3. 4.	2. Fagus grandifolia / American beech 5 Yes FACU 3. 4. 5 Yes FACU 5. 6. Column Totals: 60 (A) 150 (B) 6. 15 = Total Cover Herb Stratum (Plot size: 5 1. Prevalence Index = B/A = 0. 2.5 Column Totals: 60 (A) 150 (B) 7. 1. 1. Total Cover 1. Provalence Index = B/A = 0. 2.5 1. Prevalence Index = B/A = 0. 2.5 1. As 2. Dominance Test is > 50% 2. 2. 1. Rapid Test for Hydrophytic Vegetation Indicators: 2. 2. 1. Rapid Test for Hydrophytic Vegetation Provide supporting Provalence Index = 3.0.° 2. 2. 2. 1. Rapid Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 2. 2. Provalence Index = 3.0.° 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Strata 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast h		10	Voo	EACH.	· — — — — — — — — — — — — — — — — — — —
3.	FACU species 15	FACU species 15					
UPL species O x 5 = O Column Totals: 60 (A) 150 (B)	VPL species 0 x 5 = 0 (A) 150 (B)	Very					
A	4.	4.	3				
5.	5. 6. 7. 15 = Total Cover Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 20 Yes FACW 2. Polygonum punctatum / Dotted smartweed 15 Yes FACW 3. Bidens frondosa / Sticktight 10 Yes FACW 4. 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	5. 6. 7. 15 = Total Cover Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 20 Yes FACW 2. Polygonum punctatum / Dotted smartweed 15 Yes FACW 3. Bidens frondosa / Sticktight 10 Yes FACW 4. 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	4.				
6. 7.	Prevalence Index = B/A = 2.5	Prevalence Index = B/A = 2.5	E				Column Totals: 60 (A) 150 (B)
Total Cover	Tree - Woody Vine Stratum (Plot size:	Tree - Woody Vine Stratum (Plot size:	•				Prevalence Index = B/A = 2.5
Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 20	Herb Stratum (Plot size: 5 1. Onoclea sensibilis / Sensitive fern 20	Herb Stratum (Plot size: 5 1. Onoclea sensibilis / Sensitive fern 20	-				
The Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index <3.0" 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 1 - Rapid Test for Hydrophytic Vegetation 2 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 3 - Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations (Provide supporting 4	Herb Stratum (Plot size: 5 1	Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Frovide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Hydrophytic Vegetation* 4 - Morphological Adaptations (Provide supporting Hydrophytic Vegetation*	1.				Hvdrophytic Vegetation Indicators:
Nonclea sensibilis / Sensitive fern 20	Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)		15	_ = Total Cov	/er	
1. Oncolea sensibilis / Sensitive fern 2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4. 5. 6. 7. 8. 9. 10. 10. 10. 10. 11. 12. 12. 13. Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10. 11. 12. 15. 16. 17. 18. 19. 19. 10. 19. 10. 11. 11. 12. 12. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	1. Onoclea sensibilis / Sensitive fern 2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4.	1. Oncolea sensibilis / Sensitive fern 2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4.	Herb Stratum (Plot size: 5				
2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4.	2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4. Worphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5.	2. Polygonum punctatum / Dotted smartweed 3. Bidens frondosa / Sticktight 4. Wes FACW 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5.	1. Onoclea sensibilis / Sensitive fern	20	Yes	FACW	
3. Bidens frondosa / Sticktight 4.	3. Bidens frondosa / Sticktight 4.	3. Bidens frondosa / Sticktight 4.					
4 Problematic Hydrophytic Vegetation* (Explain) 5	4	4					
4	4	4				FACTV	Problematic Hydrophytic Vegetation¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	5				1Indicators of hydric soil and wetland hydrology must
7. Be present, unless distanced of problematic. 8. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	7. Be present, unless disturbed of problematic. 8. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation Present? Yes X No	7. B. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation Present? Yes X No	6.				
B. Definitions of Vegetation Strata Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	8	8	-				be present, unless disturbed or problematic.
9.	9.	9.	0				D 0 10 A 4-45 044-
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	0				Definitions of Vegetation Strata
11	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property is a size of the plant of the pla	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop					
11	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property is a size of the plant of the pla	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop	10				
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:	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:	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:	11				breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	12.				Sanling/shrub - Woody plants less than 3 in, DBH and
Woody Vine Stratum (Plot size: 30) 1.	Woody Vine Stratum (Plot size: 30) 1.	Woody Vine Stratum (Plot size: 30) 1.		45	= Total Cov	/er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation	1	1	Woody Vine Stratum (Plot size: 30)	-	_ '		
2.	2	2					
3	3	3					
3	3	3	2				Woody vines - All woody vines greater than 3.28 ft in
4. O = Total Cover Hydrophytic Vegetation	4	4	3.				
0 = Total Cover Hydrophytic Vegetation	= Total Cover	= Total Cover	4.				
Vegetation	Vegetation Present? Yes X No	Vegetation Present? YesX No	-		= Total Cov	/er	Hydrophytic
	Present? Yes X No	Present? Yes X No			_ 10.0.00	· Ci	
Present? Yes X NO							
	1	Remarks: (Explain alternative procedures here or in a separate report.)					Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							
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Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							
Remarks: (Explain alternative procedures here or in a separate report.)							

SOIL Sampling Point: 055-1W

Depth	ription: (Describe to th Matrix	ie aeptn nee		e indicator (Features	or contirm the	apsen	ce of indicators	.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-14	10YR 2/1	100					Clayey loam			
	-									
¹Type: C=Con	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ins.		²Locat	ion: PL=P	ore Lining, M=Matrix.	
Hydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric Soils³:	
			Polyvalue Below	Surface (S8) (I DD D MI	DA 140) (LRR K, L, MLRA 149	DR)
—										
	pipedon (A2)		Thin Dark Surface			9B)			dox (A16) (LRR K, L, F	-
Black His			Loamy Mucky M		LRR K, L)			-	it or Peat (S3) (LRR K,	L, R)
X Hydrogei	n Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	
Stratified	l Layers (A5)		Depleted Matrix	(F3)			Polyva	lue Below	Surface (S8) (LRR K,	L)
Depleted	l Below Dark Surface (A	\11)	Redox Dark Sur	face (F6)			Thin D	ark Surfac	ce (S9) (LRR K, L)	
Thick Da	rk Surface (A12)		Depleted Dark S	surface (F7)			Iron-M	anganese	Masses (F12) (LRR K	(, L, R)
Sandy M	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedm	ont Flood	olain Soils (F19) (MLRA	(149B)
Sandy G	leyed Matrix (S4)								A6) (MLRA 144A, 145,	
	edox (S5)								erial (F21)	•
	Matrix (S6)						_		rk Surface (TF12)	
	face (S7) (LRR R, ML	PA 149R)							Remarks)	
Bank Gan	idoc (or) (Errich, inc	1400)						(Explain ii	i rtemarko)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent unles	s disturbed or	problem	natic			
Restrictive La	ayer (if observed):									
Type:										
Depth (inc	ches):						Hydric Soil Pr	esent?	Yes X No	
Damarka						I				
Remarks:	Bedrock at 14									
	Bearook at 14									

Project/Site:	19020	- South Ripley		City/County	v:	Chautauqua (County	Sampling Date:	07/22/2020
Applicant/Owner:			nnectGen LLC	,,		•	ate: New York		056-1U
Investigator(s):		Matt Spadoni		Section. To	wnship, Rang			wn of Ripley	
Landform (hillslope, terra		· · · · · · · · · · · · · · · · · · ·	Local re		e, convex, no	· ——	Convex	Slope	e (%): 2-5
Subregion (LRR or MLR		RR R MLRA 139	Lat:	•	741932	Long:	-79.673905		` '
Soil Map Unit Name:	′ 		silt loam, 8-15 pe				NWI classification		
Are climatic / hydrologic	conditions on th					(If no,	explain in Remark	s.)	
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology				needed, expla	ain any answers in		
SUMMARY OF FIN	_				-	•	-	•	
Hydrophytic Vegetation		Yes	No X		Is the Sample		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	
Hydric Soil Present?	mi resent:	Yes	NoX		within a Wet		Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X	_		al Wetland Site			_
· · · · · · · · · · · · · · · · · · ·						ar rrottaria otto			
Remarks: (Explain alt	ernative procedu	ures here or in a ser	parate report.)						
HYDROLOGY									
Wetland Hydrology I	Indicators								
Primary Indicators (m		equired: check all th	at apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A		squired, cricok air til	Water-Staine	d Leaves (RO	9)			l Cracks (B6)	wo required)
High Water Table	•	_	Aquatic Faun	`	3)			atterns (B10)	
Saturation (A3)	, (142)	_	Marl Deposits	,			Moss Trim I		
Water Marks (B1	1)		Hydrogen Su		:1)			Water Table (C2)	
Sediment Depos	,	_	Oxidized Rhiz			s (C3)	Crayfish Bu		
Drift Deposits (B			Presence of F	-	-	, (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Crus	•	_	Recent Iron F			:6)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su		111100 00110 (0	,		Position (D2)	.,
Inundation Visible	•	 uerv (B7)	Other (Explai	. ,	s)		Shallow Aqu		
Sparsely Vegeta	-		(- /			aphic Relief (D4)	
, ,		,					FAC-Neutra		
Field Observations:									
Surface Water Preser		s NoX		-					
Water Table Present?		s NoX	_ ' '						
Saturation Present?	Yes	s NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frin	ige)								
Describe Recorded D	ata (stream gau	ge. monitoring well.	aerial photos. p	revious insp	ections), if av	ailable:			
	J	g-,,	, р, р		,,				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:056-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer saccharum / Sugar maple	25	Yes	FACU	Total Number of Dominant
2. Fagus grandifolia / American beech	20	Yes	FACU	Species Across All Strata: 7 (B)
3. Betula alleghaniensis / Yellow birch	15	Yes	FAC	
4. Prunus serotina / Black cherry	10	No	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 28.6 (A/B)
6	_			
7		_		Prevalence Index worksheet:
	70	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x1 = 0
Prunus pensylvanica / Pin cherry	10	Yes	FACU	FACW species 10 x 2 = 20
2. Fagus grandifolia / American beech	5	Yes	FACU	FAC species 15 x 3 = 45 FACU species 80 x 4 = 320
3			_	UPL species 0 x 5 = 0
4				Column Totals: 105 (A) 385 (B)
5				Prevalence Index = B/A = 3.67
6				Flevalence index – B/A – 3.07
7				Hydrophytic Vegetation Indicators:
	15	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	4.0	.,	E4 014/	2 - Dominance Test is >50%
1. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	3 - Prevalence Index ≤3.0¹
2. Prunus pensylvanica / Pin cherry	10	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3.		-		Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6			 	be present, unless disturbed or problematic.
7. 8.			<u> </u>	
				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.	-	_		
12	20	= Total Cov	er	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)			O.	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.		- ·		
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 056-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/3 100 0-4 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ____ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 4

Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautauqu	ia County	Sampling Date: 07/22/2020
Applicant/Owner:		ConnectGen LLC		State: New York	
Investigator(s):	Matt Spadoni	Section.	Township, Range:		n of Ripley
• • • • • • • • • • • • • • • • • • • •	e, etc): Hillside see		cave, convex, none):	Concave	· · · · · · · · · · · · · · · · · · ·
	: LRR R MLRA 139		17418784 Long:		
	Langfo			NWI classification	
	enditions on the site typical for			no, explain in Remarks	
, ,	Soil, or Hydrology		`	Circumstances" preser	,
	Soil, or Hydrology			cplain any answers in F	
	· · · · · · · · · · · · · · · · · · ·	·		•	•
SUMMART OF FIND	INGS - Attach site ma		oint locations, trans	ects, important i	eatures, etc.
Hydrophytic Vegetation	Present? Yes	X No	Is the Sampled Area		
Hydric Soil Present?	Yes	X No	within a Wetland?	Yes X	No
Wetland Hydrology Pres	ent? Yes	X No	If yes, optional Wetland S	Site ID:	Wetland 56
Remarks: (Eynlain altern	native procedures here or in a	senarate renort)			
rtemarko. (Explain alten	idilye procedures here or in a	separate report.)			
HYDROLOGY					
Wetland Hydrology Ind	licators:				
Primary Indicators (mini	mum of one required; check a	ıll that apply)		Secondary Indicat	tors (minimum of two required)
Surface Water (A1)		X Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)
High Water Table (A	A2)	Aquatic Fauna (B13)		X Drainage Pat	tterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim Li	nes (B16)
Water Marks (B1)		X Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits	(B2)	Oxidized Rhizospheres		Crayfish Buri	
Drift Deposits (B3)		Presence of Reduced I	· · ·		sible on Aerial Imagery (C9)
Algal Mat or Crust ((B4)	Recent Iron Reduction	in Tilled Soils (C6)		tressed Plants (D1)
Iron Deposits (B5)	,	Thin Muck Surface (C7		X Geomorphic	· ·
_ · · · ·	on Aerial Imagery (B7)	Other (Explain in Rema		Shallow Aqui	
	I Concave Surface (B8)		- /		aphic Relief (D4)
	(==)			X FAC-Neutral	
				_	
Field Observations:					
Surface Water Present?	Yes No	X Depth (inches):			
Water Table Present?	Yes No	X Depth (inches):			
Saturation Present?	Yes X No	Depth (inches):	12 Wetland H	ydrology Present?	Yes X No
(includes capillary fringe)				
Deceribe Decerded Date	· /atra ana manusa manaitanina u	vall aprial phatas provious in			
Describe Recorded Data	a (stream gauge, monitoring v	veii, aeriai pnotos, previous ir	spections), if available:		
Remarks:					
i e					

VEGETATION - Use scientific names of plants.				Sampling Point: 056-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Fraxinus pennsylvanica / Green ash	30	Yes	FACW	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	15	Yes	FAC	Species Across All Strata: 4 (B)
3. Acer saccharum / Sugar maple	10	No	FACU	
4		_	<u> </u>	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100.0 (A/B)
6		_		
7		_		Prevalence Index worksheet:
	55	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1		_	<u> </u>	FACW species115 x 2 =230
2				FAC species 15 x 3 = 45
3				FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5.				Column Totals:140 (A)315 (B)
6.				Prevalence Index = B/A = 2.25
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	40	Yes	FACW	X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	40	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Bidens frondosa / Sticktight	5	No	FACW	4 - Morphological Adaptations (Provide supporting
			TAOW	Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
<u> </u>				be present, unless disturbed or problematic.
			<u> </u>	
8		_	- -	Definitions of Vegetation Strata
9		_		
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 M 01 1 (DI 1)	85	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30				Herb - All herbaceous (non-woody) plants, regardless of
1		-		size, and woody plants less than 3.28 ft tall.
2.		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Demonstra (Evaluin alternative procedures have as in a consent				
Remarks: (Explain alternative procedures here or in a separat	е героп.)			

 SOIL
 Sampling Point:
 056-1W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u> </u>
0-12	10YR 2/1	100					Mucky loam			
12-18	10YR 2/1	75	5G 4/1	25	D	М	Clay			
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	Matrix.
Judria Sail I	ndicators						Indicators	for Probl	omatic Hudric	Soile3:
Hydric Soil I			Dolynyalua Palay	u Curfoco (C	0\	MI DA 440			ematic Hydric	
X Histosol	• •		Polyvalue Belov)) (LRR K, L, I	•
	pipedon (A2)		Thin Dark Surfa			-			edox (A16) (L	
	istic (A3)		Loamy Mucky N		(LKK K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					-	7) (LRR K, L)	
	d Layers (A5)	141	Depleted Matrix						V Surface (S8)	
	d Below Dark Surface (A	411)	Redox Dark Su						ce (S9) (LRR	N, L)) (LRR K, L, R)
	ark Surface (A12) /lucky Mineral (S1)		Depleted Dark S					ū	•	
	Gleyed Matrix (S4)		Redox Depress	ions (Fo)						9) (MLRA 149B) 44A, 145, 149B)
	Redox (S5)								erial (F21)	44A, 143, 143D)
	Matrix (S6)								eriai (F21) ark Surface (TF	-12)
	rface (S7) (LRR R, ML	DA 1/0R)							n Remarks)	12)
Daik Su	inace (37) (LIKIK IX, IVIL	.IXA 143D)					Other	(Lxpiaiii ii	i itemarks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
Da adad adda a 1										
	_ayer (if observed):									
Type:	opos).						Hydric Soil P	rocont?	Voc V	No
Depth (in	iciles).		<u></u>				Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripley	City/County:	Chautauqua (County	Sampling Date:	07/22/2020
Applicant/Owner:	ConnectGen		· · · · · · · · · · · · · · · · · · ·	ate: New York		056-2W
Investigator(s):	Matt Spadoni	Section, Township			vn of Ripley	
• .,	c): Bowl-shaped depression, activ L			Concave		%): 0-5
Subregion (LRR or MLRA):			Long:		· ·	· -
Soil Map Unit Name:				NWI classification		ss
· · · · · · · · · · · · · · · · · · ·	ons on the site typical for this time of y		No (If no.	- explain in Remark	s.)	
	, or Hydrologysigni		` '	cumstances" prese	,	No
	, or Hydrologynatu			ain any answers in		
· · · · · · · · · · · · · · · · · · ·	SS - Attach site map showing			•	•	
	· · · · · ·		· ·	to, important		
Hydrophytic Vegetation Pres			Sampled Area	Vaa V	Ne	
Hydric Soil Present?			a Wetland?	Yes X		
Wetland Hydrology Present?	Yes X No _	If yes, o	ptional Wetland Site	e ID:	Wetland 56	
Remarks: (Explain alternative	e procedures here or in a separate rep	ort.)				
		,				
LIVEROL OCV						
HYDROLOGY						
Wetland Hydrology Indicat						
-	of one required; check all that apply)				ators (minimum of tw	o required)
Surface Water (A1)		Stained Leaves (B9)			Cracks (B6)	
High Water Table (A2)		Fauna (B13)		X Drainage Pa		
Saturation (A3)		eposits (B15)		Moss Trim L		
Water Marks (B1)	 · ·	en Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits (B2)		d Rhizospheres on Living	Roots (C3)	Crayfish Bur		
Drift Deposits (B3)		ce of Reduced Iron (C4)			isible on Aerial Imag	
Algal Mat or Crust (B4)		Iron Reduction in Tilled S	oils (C6)		Stressed Plants (D1)	
Iron Deposits (B5)		uck Surface (C7)		X Geomorphic		
X Inundation Visible on A	· · · · · · · · · · · · · · · · · · ·	Explain in Remarks)		Shallow Aqu	ıitard (D3)	
Sparsely Vegetated Cor	ncave Surface (B8)				aphic Relief (D4)	
				X FAC-Neutra	l Test (D5)	
Field Observations:						
Surface Water Present?	Yes No X Depth	(inches):				
Water Table Present?		(inches):	-			
Saturation Present?		(inches):	Wetland Hydi	rology Present?	Yes X	No
(includes capillary fringe)	163 140 _ Д Бери	(IIICIIC3).	_ Wettand Hydr	lology i resent:	1C3X	
(includes capillary intige)						
Describe Recorded Data (str	eam gauge, monitoring well, aerial pho	otos, previous inspections), if available:			
Remarks:						

/EGETATION - Use scientific names of plants.				Sampling Point: 056-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Fraxinus pennsylvanica / Green ash	15	No	FACW	Total Number of Dominant
2.		_	-	Species Across All Strata: 3 (B)
				(-)
·				Percent of Dominant Species
<u> </u>				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				That Are OBL, FACW, OF FAC. 100.0 (A/B)
<u> </u>		<u> </u>		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
Opelia a /Ohach Ohach up / Ohach aire / AF	15	_ = Total Cov	/er	OBL species 50 x 1 = 50
Sapling/Shrub Stratum (Plot size: 15)			E. 0.47	FACW species 85 x 2 = 170
1. Salix / Willow	40	Yes	FACW	FAC species 35 x 3 = 105
2				FACU species 0 x 4 = 0
3				
4				UPL species 0 x 5 = 0
5		<u> </u>		Column Totals: (A) 325 (B)
6				Prevalence Index = B/A = 1.91
7.				Understand Variation Indiana
-	40	= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)	-	_		1 - Rapid Test for Hydrophytic Vegetation
Leersia oryzoides / Rice cutgrass	50	Yes	OBL	X 2 - Dominance Test is >50%
Eutrochium purpureum / Sweet-scented joe-pye-weed	25	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed	15	No No	FACW	4 - Morphological Adaptations (Provide supporting
Hierochloe / Sweetgrass	<u>15</u> 15	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9		<u> </u>		
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	115	= Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)		_		Herb - All herbaceous (non-woody) plants, regardless of
4				size, and woody plants less than 3.28 ft tall.
2				
2				Woody vines - All woody vines greater than 3.28 ft in
J		-		height.
4			_	Hadranhadia
	0	_ = Total Cov	/er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	ate renort)			
Tremains. (Explain alternative procedures here of in a separe	ate report.)			

SOIL Sampling Point: 056-2W

(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Rem	
	arks
0-8 10YR 3/1 90 10YR 6/8 10 C PL Clayey loam	
8-18 10YR 3/1 80 10YR 6/8 20 C PL,M Clayey loam	
	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining	M=Matrix.
dric Soil Indicators: Indicators for Problematic Hy	dric Soils³:
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K,	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16)	•
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR I	Σ, L)
_ Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (L	
_ Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (, , , , , ,
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils Sandy Claud Matrix (S4) Marie Spadia (T86) (MLF)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Mesic Spodic (TA6) (MLF Red Parent Material (F21)	A 144A, 145, 149B
Stripped Matrix (S6) Very Shallow Dark Surface	(TF12)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks	
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
estrictive Layer (if observed):	
Type:	X No
Type:	
Type:	
Type:	
Type: Hydric Soil Present? Yes	
Type:	
Type:	
Type:	
Type: Hydric Soil Present? Yes	
Type: Hydric Soil Present? Yes	
Type:	
Type: Hydric Soil Present? Yes	

Project/Site:	1902	20 - South Ripley	,		City/Cou	nty:	Chautauqua	County	Sampling Date:	07/22/2020
Applicant/Owner:				ctGen LLC	,	• —	· · · · · · · · · · · · · · · · · · ·	tate: New York		056-3W
Investigator(s):		Matt Spadoni			Section.	Township, Ra			wn of Ripley	-
Landform (hillslope, terra	ice, etc):						none):			e (%): 0-3
Subregion (LRR or MLR/		LRR R MLRA 1:				avo, convox, i		00110010	Datur	`
Soil Map Unit Name:				am, 3-8 perc				NWI classification		PEM
Are climatic / hydrologic					•		(If no	 , explain in Remark		
Are Vegetation		• • •		-				rcumstances" prese	•	X No
Are Vegetation								lain any answers in		
SUMMARY OF FIN								•	•	
		Yes	-			Is the Sam			100101100, 0101	
Hydrophytic Vegetation Hydric Soil Present?	i Present?	Yes		No		within a W	•	Voc. V	No	
*	occut?	_	X	No				Yes X	No Wetland 56	-
Wetland Hydrology Pro	25em?	Yes		No	_	ii yes, opiio	nal Wetland Si	Le ID	vvetiand 56	
Remarks: (Explain alte	rnative proce	dures here or in	a separa	ate report.)						
HYDROLOGY										
Wetland Hydrology II	ndicators:									
Primary Indicators (min		required; check	all that a	apply)				Secondary Indic	ators (minimum of	two required)
	Surface Water (A1) X Water-Staine					(B9)			il Cracks (B6)	. ,
High Water Table	(A2)		<u> </u>	Aquatic Faun	a (B13)	` ,		X Drainage P		
Saturation (A3)	,			Marl Deposits				Moss Trim I		
X Water Marks (B1))		<u> </u>	lydrogen Su	Ifide Odor	(C1)			Water Table (C2)	
X Sediment Deposit	ts (B2)			-		on Living Roo	ots (C3)	Crayfish Bu	irrows (C8)	
Drift Deposits (B3	3)			Presence of I		_		Saturation \	visible on Aerial Im	agery (C9)
Algal Mat or Crus	•		F	Recent Iron F	Reduction i	in Tilled Soils	(C6)		Stressed Plants (D	
Iron Deposits (B5				hin Muck Su			` ,	X Geomorphic	•	,
X Inundation Visible		agery (B7)		Other (Explai				Shallow Aq		
Sparsely Vegetate		• • • •		` .		•			raphic Relief (D4)	
								X FAC-Neutra	al Test (D5)	
Field Observations										
Field Observations:	٠٠ ،	/oo No	~	Donth (inch	00):					
Surface Water Present		res No		Depth (inch						
Water Table Present?		res No		Depth (inch	· —		Matlemat II.	dualanii Duaaanto	Van V	No
Saturation Present?		/es No _	X	Depth (inch	es):		wetiand Hyd	drology Present?	Yes X	No
(includes capillary fring	је)									
Describe Recorded Da	ata (stream ga	auge, monitoring	well, ae	rial photos, p	revious in	spections), if	available:			
Demontos										
Remarks:										

			Dominance Test worksheet:
			Number of Dominant Species
Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
/00013.	_ орос.о	Oluluc	Total Number of Dominant
			Species Across All Strata: 2 (B)
			Species Across All Suala.
			The state of the s
			Percent of Dominant Species That Are ORL FACIAL or FACIAL 100.0 (A/R)
			That Are OBL, FACW, or FAC: 100.0 (A/B)
			Purcual and an angle of the state of the sta
			Prevalence Index worksheet: Total % Cover of: Multiply by:
0	_ = Total Cove	er	Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
		FACW	FACW species 105 x 2 = 210
			FAC species 5 x 3 = 15
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 110 (A) 225 (B)
			Prevalence Index = B/A = 2.05
			Hydrophytic Vegetation Indicators:
5	_ = Total Cove	er	X 1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
70	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
20	No	FACW	
10	No	FACW	4 - Morphological Adaptations (Provide supporting
5	No No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
		• ———	Sapling/shrub - Woody plants less than 3 in. DBH and
	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
		J1	
			Herb - All herbaceous (non-woody) plants, regardless of size and woody plants less than 3.28 ft tall
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
0	_ = Total Cov	er	Hydrophytic
_	_		Vegetation
			Present? Yes X No
			116361K1 100 <u>//</u> 110
report.)			
report)			
	0 5 5 70 20 10 5 105 0	Species Spec	Species? Status

SOIL Sampling Point: 056-3W

	Matrix	0/		Features	Ture of	1.002	Toyture		Domarka
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture		Remarks
0-18	10YR 3/1	90	10YR 6/8	10	C	PL	Clayey loam		
				·				-	
	-		-	<u> </u>					
								-	
/pe: C=Con	centration, D=Depletion	, RM=Redu	uced Matrix, MS=Mask	ed Sand Gra	ains.		²Locat	ion: PL=Po	re Lining, M=Matrix.
dric Soil Ir	ndicators:						Indicators	for Proble	matic Hydric Soils³:
Histosol			Polyvalue Below	Surface (S8	2) /I DD D	MI DA 140			(LRR K, L, MLRA 149B)
-									
_	ipedon (A2)		Thin Dark Surface			1490)			dox (A16) (LRR K, L, R)
Black His			Loamy Mucky M		LKK K, L)				or Peat (S3) (LRR K, L, R
_ , ,	n Sulfide (A4)		Loamy Gleyed N) (LRR K, L)
_	Layers (A5)		Depleted Matrix						Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	11)	X Redox Dark Sur	face (F6)			Thin D	ark Surface	e (S9) (LRR K, L)
_ Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-M	langanese	Masses (F12) (LRR K, L,
Sandy M	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedm	ont Floodp	lain Soils (F19) (MLRA 149
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA	.6) (MLRA 144A, 145, 149
_	edox (S5)						_	arent Mate	
_	Matrix (S6)						_		k Surface (TF12)
_	face (S7) (LRR R, MLF	DA 140B)						(Explain in	
_ Daik Sui	iace (37) (LIXIX IX, WILI	VA 143D)					Other	(Lxpiaiii iii	(Nemarks)
ndicators of	hydrophytic vegetation a	and wetland	l hydrology must be pr	esent unles	s disturbed	or probler	natic		
		and wouding	- Try arology made 50 pr		- alotal boa	or probler			
estrictive L	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Pr	esent?	Yes X No
emarks:									

Project/Site:	19020 - South Ripley	City/Co	untv: Cha	utauqua County	Sampling Date:	07/22/2020
Applicant/Owner:		ectGen LLC		State: New York		057-1U
Investigator(s):	SPF		, Township, Range:		wn of Ripley	
Landform (hillslope, terrace, e	tc): Hill slope		cave, convex, none):		Slope (%): 15
Subregion (LRR or MLRA):				Long: -79.674889	· `	·
Soil Map Unit Name:		angford silt loam		NWI classification		
	itions on the site typical for this t		X No	(If no, explain in Remark		
, ,	il , or Hydrology	<u> </u>		ormal Circumstances" prese		No
·	il X , or Hydrology			ded, explain any answers in		
	GS - Attach site map sh			•	•	
Hydrophytic Vegetation Pre		No X	Is the Sampled A	-		
Hydric Soil Present?	Yes	No X	within a Wetland		No X	
Wetland Hydrology Present		No X	If yes, optional We			
vvetiana riyarology i resem	. 103	NO X	ii yes, optional we	cliana olic ib.		 -
Remarks: (Explain alternati Active hay fiel	ve procedures here or in a sepa d	rate report.)				
HYDROLOGY						
Wetland Hydrology Indica	utors:					
	m of one required; check all that	apply)		Secondary Indica	ators (minimum of tw	o required)
Surface Water (A1)	<u></u>	Water-Stained Leaves	(B9)		l Cracks (B6)	
High Water Table (A2)	-	Aquatic Fauna (B13)	(- /		atterns (B10)	
Saturation (A3)	-	Marl Deposits (B15)		Moss Trim I		
Water Marks (B1)	_	Hydrogen Sulfide Odo	r (C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2	2) <u>X</u>	Oxidized Rhizosphere	s on Living Roots (C3	B) Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation \	/isible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C	7)	Geomorphic	Position (D2)	
Inundation Visible on A	kerial Imagery (B7)	Other (Explain in Rem	arks)	Shallow Aqu	uitard (D3)	
Sparsely Vegetated Co	oncave Surface (B8)			Microtopogr	aphic Relief (D4)	
				FAC-Neutra	l 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):	Wet	land Hydrology Present?	Yes X	No
(includes capillary fringe)	<u> </u>			, 0,		
Describe Recorded Data (s	tream gauge, monitoring well, a	erial photos, previous i	nspections), if availab	ole:		
Remarks:						

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	IIIdt Ale ODL, FACW, OF FAC.
ee Stratum (Plot size. 30)	7000VEI	Species:	Status	T-t-1 Niverbox of Dominant
-		_		Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
		-	-	Prevalence Index worksheet:
		= Total Cov	/er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)			51	OBL species 0 $x = 0$
· · · · · · · · · · · · · · · · · · ·				FACW species 0 x 2 = 0
				FAC species 3 x 3 = 9
				FACU species 95 x 4 = 380
				UPL species 0 x 5 = 0
				Column Totals: 98 (A) 389 (B)
·				Prevalence Index = B/A = 3.97
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5)		_		
Trifolium pratense / Red clover	85	Yes	FACU	2 - Dominance Test is >50%
Phleum pratense / Common timothy, Cultivated timothy	10	No	FACU	3 - Prevalence Index ≤3.0¹
	3			4 - Morphological Adaptations (Provide supporting
Ranunculus acris / Acrid buttercup	<u> </u>	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
			· -	11-dicators of hydric soil and wetland hydrology must
				¹Indicators of hydric soil and wetland hydrology must
			-	be present, unless disturbed or problematic.
-				
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
2.				Sapling/shrub - Woody plants less than 3 in. DBH and
	98	= Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)				
<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
			<u> </u>	height.
		= Total Cov	·or	Hydrophytic
		_ = 10101 00.	CI	Vegetation
				Vegetation
				Present? Yes No X

 SOIL
 Sampling Point:
 057-1U

Depth	ription: (Describe to t Matrix			x Features				•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-12	10 yr 4/1	95	10 yr 4/6	5	С	М	Loam				
12-18	10 yr 6/3	90	7.5 yr 4/4	10	С	М	Loam				
				- 							
								5. 5			
Type: C=Con	centration, D=Depletion	on, RM=Redi	uced Matrix, MS=Masi	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, N	1=Matrix.	
lydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydi	ric Soils³:	
Histosol			Polyvalue Belov	v Surface (S	B) (LRR R,	MLRA 1491) (LRR K, L		9B)
Histic Ep	ipedon (A2)		Thin Dark Surfa						dox (A16)		-
Black His			Loamy Mucky N			•			it or Peat (S		
— Hydrogei	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			 Dark	Surface (S	7) (LRR K ,	L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)			Poly	alue Below	Surface (S8	3) (LRR K,	L)
Depleted	l Below Dark Surface (A11)	Redox Dark Sui	rface (F6)			Thin	Dark Surfac	ce (S9) (LR	R K, L)	
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-	Manganese	Masses (F1	2) (LRR F	(, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Flood	olain Soils (F	19) (MLRA	(149B)
	leyed Matrix (S4)								A6) (MLRA	144A, 145	, 149B)
	edox (S5)							Parent Mate			
	Matrix (S6)								rk Surface (TF12)	
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Othe	r (Explain ir	Remarks)		
3Indicators of	hydrophytic vegetation	and wetland	d hydrology must be n	recent unles	e dieturhad	or problem	atic				
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.				
	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.				
		and wetland	d hydrology must be p	resent, unles	s disturbed	or problem					
Restrictive La	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic. Hydric Soil F	resent?	Yes	No	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	х
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	Х
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	х
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	x
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	x
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No .	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	x
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X
Restrictive La Type: Depth (ind	ayer (if observed):	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes	No _	X

Project/Site:	19020 - South Ripley	City/C	ounty: (Chautauqua County	Sampling Date: 07/22/2020
Applicant/Owner:	<u> </u>	ConnectGen LLC	,	State: New York	
Investigator(s):	SPF	Sectio	n, Township, Range		own of Ripley
Landform (hillslope, terrace,			ncave, convex, non		
Subregion (LRR or MLRA):		<u> </u>	2.17502156	Long: -79.67485	
Soil Map Unit Name:				NWI classificat	
Are climatic / hydrologic cor			X No	(If no, explain in Remar	
, ,	Soil , or Hydrology	· -		"Normal Circumstances" pres	′
	Soil , or Hydrology			needed, explain any answers in	
				s, transects, important	•
					reatures, etc.
Hydrophytic Vegetation P		X No	Is the Sample		
Hydric Soil Present?	Yes	X No	within a Wetla		
Wetland Hydrology Prese	nt? Yes	X No	If yes, optional	Wetland Site ID:	Wetland 057
Remarks: (Explain alterna	ative procedures here or in a	separate report)	-		
Tromano. (Explain altorno	and procedures here of mre	ooparato roporti.)			
HYDROLOGY					
Wetland Hydrology Indi	cators:				
Primary Indicators (minim	um of one required; check a	all that apply)		Secondary Indic	cators (minimum of two required)
Surface Water (A1)		Water-Stained Leave	` '	Surface So	il Cracks (B6)
High Water Table (A	2)	Aquatic Fauna (B13)		Drainage F	Patterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim	Lines (B16)
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Dry-Seaso	n Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots	<u> </u>	urrows (C8)
Drift Deposits (B3)		X Presence of Reduce	d Iron (C4)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (E	34)	Recent Iron Reduction	on in Tilled Soils (Co	S) Stunted or	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (0	C7)	Geomorph	ic Position (D2)
Inundation Visible or	Aerial Imagery (B7)	Other (Explain in Rer	marks)	Shallow Ad	juitard (D3)
Sparsely Vegetated	Concave Surface (B8)	_		Microtopog	raphic Relief (D4)
				FAC-Neutr	al Test (D5)
F: 1101 (*					
Field Observations:	V N-	V D			
Surface Water Present?	Yes No _				
Water Table Present?	Yes No _	X Depth (inches):			V V N
Saturation Present?	Yes X No	Depth (inches):	0 V	Vetland Hydrology Present?	Yes X No
(includes capillary fringe)					
Describe Recorded Data	(stream gauge, monitoring v	vell aerial photos previous	inspections) if ava	ilable:	
Booding Hoodided Bala	(ou our gaago, momoning t	von, donai priotos, proviodo	mopodiono), n ave	mabio.	
Remarks:					

VEGETATION - Use scientific names of plants.				Sampling Point:057-1W
Tree Stratum (Plot size: 30)	Absolute %Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1				Total Number of Dominant Species Across All Strata: 2 (B)
4. 5.	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)
7.		= Total Cov		Prevalence Index worksheet: Total % Cover of: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:15) 1. Crataegus / Hawthorn 2	5	Yes		FACW species 90 x 2 = 180 FAC species 0 x 3 = 0
3	_	_		FACU species $\begin{array}{cccccccccccccccccccccccccccccccccccc$
6. 7.		_		Prevalence Index = B/A = 2.29 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 1. Phalaris arundinacea / Reed canarygrass, Reed canary grass	80	Yes No	FACW FACU	2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
Solidago canadensis / Canada goldenrod Impatiens capensis / Spotted jewelweed 4.	10	No	FACW	4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5		_		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. 9.				Definitions of Vegetation Strata
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)	105	_ = Total Cov		greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2			-	Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

 SOIL
 Sampling Point: ___057-1W

Depth	Matrix		Redox	x Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10 yr 3/2	100					Loam			
10-18	10 yr 5/2	80	10 yr 5/8	20	С	М	Loam clay	<u> </u>		
								<u> </u>		
								<u> </u>		
								<u> </u>		
								<u> </u>		
Type: C=Conc	entration, D=Depletio	n, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Ma	ntrix.
ludais Cail las	dia atawa .						la dia atau	for Drobl		-11-3.
Hydric Soil Inc			Daharahaa Dalaa	0	o)	MI DA 440			ematic Hydric S	
Histosol (A	,		Polyvalue Belov					•) (LRR K, L, ML	-
	pedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LRF	
Black Histi			Loamy Mucky N		(LKK K, L)				at or Peat (S3) (L	.кк к, L, R)
	Sulfide (A4)		Loamy Gleyed I					-	7) (LRR K, L)	
	Layers (A5)	• • • •	X Depleted Matrix						Surface (S8) (L	
	Below Dark Surface (A	411)	Redox Dark Sui						ce (S9) (LRR K,	
	k Surface (A12)		Depleted Dark S					•	Masses (F12)	
	icky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19)	
	eyed Matrix (S4)							-	A6) (MLRA 144	A, 145, 149B)
Sandy Red								Parent Mate		
Stripped M									rk Surface (TF12	2)
Dark Surfa	ace (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain ir	n Remarks)	
3Indicators of b		and watland	hydrology must bo p	rocont unlo	se dieturbed	or problem	atio			
		and welland	i nyarology mast be p	TC3CIT, UITIC		or problem	auc.			
mulcators of N	ydrophytic vegetation									
	yer (if observed):									
Restrictive Lay	yer (if observed):									
Restrictive Lay	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):		_				Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020 - South Ripley	City/C	ounty:	Chautauqua C	ounty	Sampling Date:	07/22/2020
Applicant/Owner:	. ,	ConnectGen LLC	·	•		Sampling Point:	057-2W
Investigator(s):	SPF	Section	on, Township, Rar			wn of Ripley	
Landform (hillslope, terrace,	etc): Hillside see		ncave, convex, n		Concave		(%): 8
Subregion (LRR or MLRA):		·	12.17484561	Long:	-79.674914		
Soil Map Unit Name:					NWI classification		PFO
Are climatic / hydrologic cor			X No	(If no, e	explain in Remark	(s.)	
, ,	Soil, or Hydrology	-		` '	umstances" prese	,	X No
	soil , or Hydrology				in any answers in		
SUMMARY OF FINDI				=	•	•	
					io, important	100101.00, 0101	
Hydrophytic Vegetation P		X No	Is the Samp		Vaa V	No	
Hydric Soil Present?	Yes		within a We		Yes X		_
Wetland Hydrology Prese	nt? Yes	X No	ii yes, opilor	nal Wetland Site	ID:	Wetland 057	
Remarks: (Explain alterna	ative procedures here or in a	separate report.)					
, , , , , , , , , , , , , , , , , , ,		,					
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology Indi							
-	um of one required; check a					ators (minimum of t	wo required)
Surface Water (A1)		X Water-Stained Leave	` ,			l Cracks (B6)	
High Water Table (A:	2)	Aquatic Fauna (B13)			X Drainage Pa		
X Saturation (A3)		Marl Deposits (B15)			Moss Trim I		
Water Marks (B1)		Hydrogen Sulfide Oc				Water Table (C2)	
Sediment Deposits (B2)	X Oxidized Rhizospher	-	ts (C3)	Crayfish Bu		
Drift Deposits (B3)		Presence of Reduce	` ,		Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (E	34)	Recent Iron Reduction	•	(C6)		Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck Surface (Geomorphic	Position (D2)	
Inundation Visible or	Aerial Imagery (B7)	Other (Explain in Re	marks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	Concave Surface (B8)				Microtopogi	raphic Relief (D4)	
					X FAC-Neutra	Il Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	Y Denth (inches):					
	Yes No	X Depth (inches): X Depth (inches):					
Water Table Present? Saturation Present?			0	Watland Hudr	ology Procest?	Voc. V	No
	Yes X No _	Depth (inches):		welland nyun	ology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data	(stream gauge, monitoring v	vell, aerial photos, previous	s inspections), if a	vailable:			
	3.13., 1.1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,				
Remarks:							
i .							

/EGETATION - Use scientific names of plants.				Sampling Point:057-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	•
Trop Stratum (Plat size: 20				That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	T. I. I. I. I.
1. Fraxinus pennsylvanica / Green ash	30	Yes	FACW	Total Number of Dominant
2. Acer saccharum / Sugar maple	30	Yes	FACU	Species Across All Strata: 5 (B)
3. Fagus grandifolia / American beech	10	No	FACU	
4		_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80.0 (A/B)
6				
7				Prevalence Index worksheet:
	70	_ = Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Fraxinus pennsylvanica / Green ash	20	Yes	FACW	FACW species 150 x 2 = 300
2.				FAC species 0 x 3 = 0
3.				FACU species 40 x 4 = 160
4.			·	UPL species0 x 5 =0
				Column Totals: 190 (A) 460 (B)
^			· 	Prevalence Index = B/A = 2.42
7				
7		- Total Cave		Hydrophytic Vegetation Indicators:
U 1 0 () (D) ()	20	_ = Total Cove	2 1	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5		.,	E. 0.11	X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	65	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed	35	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4				Troblematic rival ophytic vegetation (Explain)
5				1Indicators of hydric soil and wotland hydrology must
6				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.			·	Definitions of Vegetation Strata
9.			·	Definitions of Vegetation Strata
				To a Manda de la como
10.	 -			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.		_	· 	
12		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vino Stratum (Dlot size: 20		_ = 10(a) COV	5 1	
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1			·	size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 057-2W

Depth	Matrix		Redox	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	2.5 y 3/1	100					Loam			
10-18	2.5 y 4/1	80	10 yr 5/8	20	С	PL	Clay loam			
				_,						
	· · <u></u>									
				- 						
				- 						
Type: C=Coi	ncentration, D=Depletior	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric Soils ³ :	
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R.M	LRA 1491) (LRR K, L, MLRA 1	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR K, L	-
	istic (A3)		Loamy Mucky N			400)			at or Peat (S3) (LRR I	
	en Sulfide (A4)		Loamy Gleyed I		(=:::::, L <i>)</i>				7) (LRR K, L)	·, - , ·\ <i>j</i>
	d Layers (A5)		X Depleted Matrix					•	/) (LRR R, L) / Surface (S8) (LRR I	(1)
		\11\							· , •	(, ∟)
	d Below Dark Surface (A	A 11)	Redox Dark Sur						ce (S9) (LRR K, L)	K I D)
	ark Surface (A12)		Depleted Dark S					Ū	Masses (F12) (LRR	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19) (MLR	
	Gleyed Matrix (S4)								A6) (MLRA 144A, 14	5, 149B)
	Redox (S5)							Parent Mate		
	Matrix (S6)								ark Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Othe	r (Explain ir	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unles	s disturbed o	r nrohlem	atic			
		ana wottane	- Trydrology made 50 p		- alotarboa o	T problem				
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X No	'
Remarks:										
Ciliains.										

Project/Site:	19020 -	South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/22/2020
Applicant/Owner:		· · ·	ectGen LLC	,			ate: New York		058-1U
Investigator(s):		SPF, MS		Section.	Township, Ra			wn of Ripley	
Landform (hillslope, terr		,	Local re		ave, convex,		Convex	Slope	e (%): 15
Subregion (LRR or MLR		•	Lat:		17588688	Long:	-79.674082		` '
Soil Map Unit Name:	·		Erie silt loam				NWI classification		
Are climatic / hydrologic	conditions on the	site typical for this ti	me of year?	Yes 2	X No	(If no,	– explain in Remark	(s.)	
Are Vegetation	, Soil	or Hydrology	significantl	y disturbed	d?		cumstances" prese		X No
Are Vegetation						(If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN						ons. transec	ts. important	features, etc.	
Hydrophytic Vegetation		Yes	No X		Is the Sam	•		,	
Hydric Soil Present?	JIII ICSCIII:	Yes X	No X	_	within a W	•	Yes	No X	
Wetland Hydrology P	resent?	Yes	No X	_		onal Wetland Site		NO	_
vvctiana riyarology r			140 <u>X</u>	_	ii yes, opue	mai wetiana oit	C ID.		
Remarks: (Explain alt Active h		es here or in a separ	rate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m		uired; check all that	apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A	A1)	,	Water-Staine	d Leaves ((B9)			l Cracks (B6)	
High Water Table	e (A2)	 ,	Aquatic Faun	a (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposits	(B15)			Moss Trim I	_ines (B16)	
Water Marks (B1	1)		Hydrogen Su	lfide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhiz	zospheres	on Living Ro	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)	!	Presence of F	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Cru	st (B4)		Recent Iron F	Reduction i	in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B	5)	<u> </u>	Thin Muck Su	ırface (C7))		Geomorphic	Position (D2)	
Inundation Visible	le on Aerial Imager	ry (B7)	Other (Explai	n in Rema	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ited Concave Surfa	ace (B8)					Microtopogi	raphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Preser		No X	Donth (inch	oc).					
Water Table Present?	-	No X	Depth (inche Depth (inche						
Saturation Present?	Yes	No X	Depth (inch	· —		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frin	-	NO	Deptil (illicili			welland nyu	irology Fresent?	165	NO
(includes capillary ini	ige)								
Describe Recorded D	ata (stream gauge	e, monitoring well, ac	erial photos, p	revious in:	spections), if	available:			
		-							
Remarks:									

0	Species? = Total Cove		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant 1 (B) Species Across All Strata: 1 (B) Percent of Dominant Species 1 (A/B) Prevalence Index worksheet: 0.0 (A/B) Prevalence Index worksheet: 0.0 (A/B) OBL species 20 0.0 0.0 X 1 = 20 0.0 0.0
over 0	Species? = Total Cove	Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: O (A) (B) Prevalence Index worksheet: Total % Cover of: Multiply by:
over 0	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: O.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
over 0	Species? = Total Cove	Status	Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: O.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		That Are OBL, FACW, or FAC: 0.0 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by:
0	= Total Cove		Prevalence Index worksheet:
0	= Total Cove		Total % Cover of: Multiply by:
	-	т	Total % Cover of: Multiply by:
	-	er	
			OBL species x 1 = 20 FACW species 0 x 2 = 0
			FAC species 5 x 3 = 15
			· — — —
			FACU species 90 x 4 = 360
			UPL species 0 x 5 = 0
			Column Totals:115 (A)395 (B
			Prevalence Index = B/A = 3.43
<u> </u>	= Total Cove	·r	Hydrophytic Vegetation Indicators:
	10101 00.5	•	1 - Rapid Test for Hydrophytic Vegetation
20	Vec	EACH	2 - Dominance Test is >50%
			3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations (Provide supporting
5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			be present, unless disturbed of problematic.
			Definitions of Vegetation Strata
			Dolling of Fogetation Chair
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
	• ——		
15	- Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10	_ 10tal 0010	4	
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
0	= Total Cove	:r	Hydrophytic
			Vegetation
			Present? Yes No X
<u> </u>			180 <u>X</u>
92 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 = Total Cove 20	0 = Total Cover 90 Yes FACU 20 No OBL 5 No FAC 15 = Total Cover

SOIL Sampling Point: 058-1U

Depth	iption: (Describe to the Matrix			Features				,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10 yr 3/1	85	10 yr 5/8	25	C	M	Loam	
							-	
							·	
						·		
							·	
Type: C=Con	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ked Sand Gra	ains.		²Locati	on: PL=Pore Lining, M=Matrix.
lydric Soil Ir	ndicators:						Indicators 1	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	Surface (S8	3) (LRR R. I	MLRA 149E		luck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa	•	,		· —	Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			,		lucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)				urface (S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyva	lue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	(11)	X Redox Dark Sur					ark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					anganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ons (F8)				ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							arent Material (F21)
	Matrix (S6) face (S7) (LRR R, ML	DA 1/0B)						hallow Dark Surface (TF12) Explain in Remarks)
Dark our	iacc (07) (ERRICH, ME	IVA 143D)						Explain in remarks)
Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problema	atic.	
Restrictive L	ayer (if observed):							
Type:	ayer (ii observeu).							
Depth (inc							Hydric Soil Pre	esent? Yes X No
	, <u></u>							
Remarks:								

Project/Site:	19020	- South Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	07/22/2020
Applicant/Owner:			ConnectGen LLC			St	ate: New York	Sampling Point:	058-1W
Investigator(s):	Matt Spa	idoni & Sam Pa	arker	Section,	Township, Ran	ige:	To	own of Ripley	
Landform (hillslope, terrac	ce, etc): Bo	owl-shaped de	pression Local				Concave	Slope	e (%): 0-5
Subregion (LRR or MLRA					17580293	Long:	-79.67405	71 Datur	n: NAD 83
	•		ie silt loam, 3-8 pe	rcent slopes	;		NWI classificat	ion:	PEM
Are climatic / hydrologic c			or this time of year	? Yes	X No	(If no,	explain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydrology	significar	ntly disturbed	d? A	re "Normal Cir	cumstances" pres	ent? Yes	X No
			naturally				ain any answers ir		
SUMMARY OF FINE		='	·			ns, transec	cts, important	features, etc.	
Hydrophytic Vegetation		Yes			Is the Samp	•		,	
Hydric Soil Present?		Yes	X No		within a We		Yes X	No	
Wetland Hydrology Pre	sent?	Yes	X No	,		al Wetland Site		Wetland 58	_
Remarks: (Explain alter	rnative procedu	res here or in a	a separate report.)						
HYDROLOGY									
Wetland Hydrology In	dicators:								
Primary Indicators (min		auired: check	all that apply)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A1				ned Leaves ((B9)	_		il Cracks (B6)	
High Water Table	(A2)		Aquatic Fau	ına (B13)			X Drainage F	atterns (B10)	
Saturation (A3)			Marl Depos					Lines (B16)	
Water Marks (B1)			Hydrogen S	Sulfide Odor	(C1)		Dry-Seaso	n Water Table (C2)	
Sediment Deposits	s (B2)		X Oxidized RI	hizospheres	on Living Roo	ts (C3)		ırrows (C8)	
Drift Deposits (B3))		Presence o	f Reduced Ir	ron (C4)		Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or Crust	(B4)		Recent Iron	Reduction i	in Tilled Soils (C6)	Stunted or	Stressed Plants (D	1)
Iron Deposits (B5)			Thin Muck	Surface (C7))		X Geomorphi	ic Position (D2)	
Inundation Visible	-	•	Other (Expl	ain in Rema	ırks)		Shallow Ac		
Sparsely Vegetate	d Concave Sur	face (B8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present	? Yes	. No	X Depth (inc	ches):					
Water Table Present?	Yes	No No	X Depth (inc	ches):					
Saturation Present?	Yes	No No	X Depth (inc	ches):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	e)								
Describe Recorded Date	ta (etroam gaug	no monitorina	well aerial photos	provious in	enactions) if a	vailable:			
Describe Recorded Dai	ıa (Sireaili gauç	ge, monitoring	well, aeriai priolos	, previous in	ispections), ii a	valiable.			
Remarks:									
1									

GETATION - Use scientific names of plar				Sampling Point:058-1W
				Dominance Test worksheet:
				Number of Dominant Species
one Strature (Diet sine) 20	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	Total Number of Demainant
	· · · · · · · · · · · · · · · · · · ·			Total Number of Dominant
				Species Across All Strata: 2 (B)
			- ——	Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
			- ——	That file OBE, 17(OV), 0117(C). 100.0 (70B)
		-		Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)	-		OBL species 50 x 1 = 50
	_			FACW species 50 x 2 = 100
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 150 (B)
				Prevalence Index = B/A =1.5
				Hydrophytic Vegetation Indicators:
	0	= Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Phalaris arundinacea / Reed canarygrass, Reed can		Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Carex vulpinoidea / Fox sedge, Brown fox sedge	50	Yes	OBL	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
				resistants rijuroprijus vogotation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				So processit, amost alotalized or processitation
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
· <u></u>				breast height (DBH), regardless of height.
2.		- ——		Sapling/shrub - Woody plants less than 3 in. DBH and
	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: ____058-1W

	Matrix		eded to document th Redo:	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10YR 3/1	90	10YR 5/8	10	С	PL	Loam			
10-18	10YR 3/1	70	10YR 4/6	10	С	М	Clay			
10-18			2.5y 5/6	20	С	М	Clay			
								-		
								-		
ype: C=Con	centration, D=Depletion	n, RM=Redi	iced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ition: PL=P	ore Lining, M=Ma	atrix.
ydric Soil In	dicators:						Indicators	for Probl	ematic Hydric S	oils³:
Histosol ((A1)		Polyvalue Belov	v Surface (S	3) (LRR R ,	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L, ML	RA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	dox (A16) (LRF	K, L, R)
_ Black His	stic (A3)		Loamy Mucky N	/lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (L	.RR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed I				Dark	Surface (S	7) (LRR K, L)	
	Layers (A5)		Depleted Matrix	` '					Surface (S8) (L	· •
	Below Dark Surface (A	A11)	X Redox Dark Su						ce (S9) (LRR K,	
	rk Surface (A12)		Depleted Dark S					ū	Masses (F12)	
	ucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19)	
	eyed Matrix (S4)								A6) (MLRA 144	A, 145, 149B)
_ Sandy Re								Parent Mate		
	Matrix (S6)	DA 440D\							rk Surface (TF12	2)
Dark Sun	face (S7) (LRR R, ML	KA 149B)					Otner	(Explain ir	Remarks)	
Indicators of I	nydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Postriotivo I :	ayer (if observed):									
	ayer (ii observeu).									
Type:							Hydric Soil P	resent?	Yes X	No
Type:	shae).						Tiyunc John	10301111	103 <u>X</u>	
Type: Depth (inc	ches):									
Depth (inc	ches):									
	hes):									
Depth (inc	ches):									
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Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									

Project/Site:	19020 - South Ripley	City/Co	unty: Ch	autauqua County	Sampling Date:	07/23/2020
Applicant/Owner:		nnectGen LLC	•	State: New York		059-1U
Investigator(s):	Matt Spadoni & Joe Gallo		, Township, Range:		vn of Ripley	
Landform (hillslope, terrace, et			cave, convex, none)			%): 2-5
Subregion (LRR or MLRA):			19989497	Long: -79.7145788		· ·
Soil Map Unit Name:		Asheville silt loam		NWI classification		14712 00
Are climatic / hydrologic condit			Y No	(If no, explain in Remark		
, ,	, or Hydrology			Normal Circumstances" prese		No
	, or Hydrology			eded, explain any answers in		110
				•	•	
SUMMARY OF FINDING	55 - Attach Site map s	snowing sampling p	Joint locations,	transects, important	reatures, etc.	
Hydrophytic Vegetation Pres	sent? Yes		Is the Sampled	Area		
Hydric Soil Present?	Yes	NoX	within a Wetland	d? Yes	NoX	
Wetland Hydrology Present?	? Yes	NoX	If yes, optional W	/etland Site ID:		
D 1 (F 1: 11 1:						
Remarks: (Explain alternativ	e procedures here or in a se	eparate report.)				
HYDROLOGY						
Wetland Hydrology Indicat				0 1 1 1		
Primary Indicators (minimum	n of one required; check all tr		(50)		tors (minimum of tw	o requirea)
Surface Water (A1)	_	Water-Stained Leaves	(B9)		Cracks (B6)	
High Water Table (A2)	_	_ Aquatic Fauna (B13)			etterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	, ,	
Water Marks (B1)	_	_ Hydrogen Sulfide Odo			Water Table (C2)	
Sediment Deposits (B2		_ Oxidized Rhizosphere		- -		
Drift Deposits (B3)	_	Presence of Reduced	Iron (C4)	Saturation V	isible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` ,		Stressed Plants (D1)	
Iron Deposits (B5)	_	Thin Muck Surface (C		Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rem	arks)	Shallow Aqu	itard (D3)	
				Microtopogr	aphic Relief (D4)	
Sparsely Vegetated Co	ncave Surface (B8)					
Sparsely Vegetated Co	ncave Surface (B8)			FAC-Neutra	Test (D5)	
	ncave Surface (B8)		I	FAC-Neutra	Test (D5)	
Field Observations:		5 4 4 4 3		FAC-Neutra	Test (D5)	
Field Observations: Surface Water Present?	Yes No <u>X</u>	Depth (inches):		FAC-Neutra	Test (D5)	
Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Depth (inches):		<u> </u>		
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No <u>X</u>	Depth (inches):	We	FAC-Neutra	Yes	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Depth (inches):	We	<u> </u>		No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):				No X

VEGETATION - Use scientific names of plants.				Sampling Point:059-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Acer saccharum / Sugar maple	85	Yes	FACU	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	10	No	FAC	Species Across All Strata: 4 (B)
3.	_		 	(,,
4.	_		 	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	95	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species0 x 1 =0
1. Hamamelis virginiana / American witch-hazel	10	Yes	FACU	FACW species15 x 2 =30
2.				FAC species 10 x 3 = 30
3.				FACU species 100 x 4 = 400
3. 4.				UPL species 0 x 5 = 0
				Column Totals: 125 (A) 460 (B)
				Prevalence Index = B/A = 3.68
			 	
7	10	= Total Cov		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ = 10(a) 000	CI	1 - Rapid Test for Hydrophytic Vegetation
1. Fraxinus pennsylvanica / Green ash	15	Yes	FACW	2 - Dominance Test is >50%
Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	3 - Prevalence Index ≤3.01
		168	FACU	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8	_	-		Definitions of Vegetation Strata
9				
10.	-	-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			 	breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	20	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3	_			height.
4	_			
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Describes (Finals in alternative general was been as in a second	t \			
Remarks: (Explain alternative procedures here or in a separate	е героп.)			

SOIL Sampling Point: 059-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/3 100 0-12 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 12

US Army Corps of Engineers

Project/Site:	19020 - South Ripley	City/County:	Chautauqua County	Sampling Date: 07/23/2020
Applicant/Owner:	ConnectGen LLC	· , ,	State: New York	
Investigator(s):	Matt Spadoni, Joe Gallo	Section, Township, Ra		own of Ripley
Landform (hillslope, terrace, etc				Slope (%): 0-5
Subregion (LRR or MLRA):			Long: -79.714592	
Soil Map Unit Name:	_		NWI classificat	
· ———	ons on the site typical for this time of year?	Yes X No	(If no, explain in Remar	ks.)
, ,			Are "Normal Circumstances" pres	ent? Yes X No
Are Vegetation , Soil			(If needed, explain any answers in	
	S - Attach site map showing sar		•	•
	•			
Hydrophytic Vegetation Prese			•	No
Hydric Soil Present?				
Wetland Hydrology Present?	Yes <u>X</u> No	ii yes, opud	onal Wetland Site ID:	Wetland 59
Remarks: (Explain alternative	procedures here or in a separate report.)			
	,			
LIVEROLOCY				
HYDROLOGY				
Wetland Hydrology Indicato				
	of one required; check all that apply)			cators (minimum of two required)
Surface Water (A1)		ed Leaves (B9)		oil Cracks (B6)
High Water Table (A2)	Aquatic Fau		X Drainage F	
X Saturation (A3)	Marl Deposit			Lines (B16)
Water Marks (B1)		ulfide Odor (C1)		n Water Table (C2)
Sediment Deposits (B2)	_	izospheres on Living Ro	· · · — ·	urrows (C8)
Drift Deposits (B3)		Reduced Iron (C4)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Soils	· ·	Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck S		X Geomorph	ic Position (D2)
Inundation Visible on Ae	rial Imagery (B7) Other (Expla	in in Remarks)	Shallow Ad	quitard (D3)
Sparsely Vegetated Con	cave Surface (B8)		Microtopog	raphic Relief (D4)
			X FAC-Neutr	al Test (D5)
Field Observations:				
Surface Water Present?	Yes No X Depth (inch	Jec).		
Water Table Present?	Yes X No Depth (incl	· ———		
Saturation Present?	Yes X No Depth (incl	· ——	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)	res X No Depti (inci	ies)	wetiand rigurology Fresent:	165 <u>X</u> 110
(includes capillary liftige)				
Describe Recorded Data (stre	eam gauge, monitoring well, aerial photos,	previous inspections), if	available:	
1				
Remarks:				
1				

VEGETATION - Use scientific names of plants.				Sampling Point: 059-1W
•				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer saccharum / Sugar maple	30	Yes	FACU	Total Number of Dominant
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 5 (B)
2				(2)
			 	Percent of Dominant Species
4 5.				·
				That Are OBL, FACW, or FAC: 80.0 (A/B)
6.	_	-		Prevalence Index worksheet:
7		- 		Total % Cover of: Multiply by:
	40	_ = Total Cov	er	OBL species 30 x 1 = 30
Sapling/Shrub Stratum (Plot size:)				· — — — —
Fraxinus pennsylvanica / Green ash	20	Yes	FACW	· — — — — — — — — — — — — — — — — — — —
Rosa multiflora / Multiflora rose, Multiflora rosa	3	No	FACU	FAC species 0 x 3 = 0
3.		_		FACU species 33 x 4 = 132
4				UPL species 0 x 5 = 0
5.			- · ·	Column Totals: (A) (B)
6.				Prevalence Index = B/A = 2.31
7.				
··· -	23	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			Ci	1 - Rapid Test for Hydrophytic Vegetation
`` <u></u>	20	Vac	ODI	X 2 - Dominance Test is >50%
Leersia oryzoides / Rice cutgrass	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
2. Impatiens capensis / Spotted jewelweed	15	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Onoclea sensibilis / Sensitive fern	5	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Bidens frondosa / Sticktight	5	No	FACW	
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, unless disturbed of problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation offata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
		-	 	
12	 55	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vino Stratum (Plot size: 30		_ = 10tal C0V	CI	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2		_	<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
3	_	_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: ____059-1W

Depth	ription: (Describe to th Matrix	<u> </u>		x Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	2.5Y 2.5/1	90	10YR 4/6	10	С	М	Clayey			
								· '		
Type: C=Cor	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=Po	ore Lining, M=Ma	ntrix.
lydric Soil II	adicators						Indicator	for Broble	matic Hydric S	nile3:
-			Dobarduo Polov	v Curfoss (CC) / DD D	MI DA 440E			ematic Hydric So	
Histosol	` '		Polyvalue Belov) (LRR K, L, ML	· · · · · · · · · · · · · · · · · · ·
	pipedon (A2)		Thin Dark Surfa						dox (A16) (LRR	
Black His			Loamy Mucky N		LKK K, L)				t or Peat (S3) (L	.KK K, L, R)
	n Sulfide (A4)		Loamy Gleyed I					•	7) (LRR K, L)	DD 14 1.)
	Layers (A5)		Depleted Matrix						Surface (S8) (L	
	Below Dark Surface (A	4 11)	X Redox Dark Sui						ce (S9) (LRR K,	
	ark Surface (A12)		Depleted Dark S					-	Masses (F12)	
	lucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19)	
	leyed Matrix (S4)								A6) (MLRA 144	A, 145, 149B)
	edox (S5)						_	Parent Mate		
	Matrix (S6)	D 4 4 40 D)							rk Surface (TF12	2)
Dark Sur	face (S7) (LRR R, ML	.KA 149B)					Otne	r (Explain in	Remarks)	
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive L	hydrophytic vegetation ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive L	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema				
Restrictive L	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic. Hydric Soil F	Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No
Restrictive L Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema		Present?	Yes X	No

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/23/2020
Applicant/Owner:	· · ·	ConnectGen LLC	, ,		tate: New York		059B-2W
Investigator(s):	Matt Spadoni, Joe Gal		Section, Township,			vn of Ripley	
Landform (hillslope, terrace, etc	•		elief (concave, conve		Concave		(%): 0-5
Subregion (LRR or MLRA):				Long:	-79.7147511		`
Soil Map Unit Name:					NWI classification		PEM
Are climatic / hydrologic conditi				No (If no	explain in Remark		
, ,	, or Hydrology	•	y disturbed?		rcumstances" prese	,	(No
Are Vegetation , Soil					lain any answers in		<u> </u>
SUMMARY OF FINDING					•	•	
					cts, important	icatures, etc.	
Hydrophytic Vegetation Pres		X No		ampled Area			
Hydric Soil Present?		X No		Wetland?	Yes X		_
Wetland Hydrology Present?	Yes	X No	_ If yes, o	otional Wetland Sit	ie ID:	Wetland 59B	
Remarks: (Explain alternative	e procedures here or in a	separate report)	•				
rtomanter (=xp:am anomativ	o procedures nore er in a						
LIV/DDOL GOV							
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
Primary Indicators (minimum	of one required; check a	ll that apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1)			d Leaves (B9)		Surface Soil	Cracks (B6)	
X High Water Table (A2)		Aquatic Faun	a (B13)		Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Deposits	s (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Su	Ifide Odor (C1)		X Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		X Oxidized Rhiz	zospheres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of F	Reduced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron F	Reduction in Tilled So	oils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Su	ırface (C7)		X Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain	n in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor	ncave Surface (B8)				Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations:	Van Na	V Danth (inch	>				
Surface Water Present?		X Depth (inch		-			
Water Table Present?	Yes X No	Depth (inche	· ———		J D 10	V V	NI-
Saturation Present?	Yes <u>X</u> No	Depth (inche	es): 8	wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (str	eam gauge, monitoring w	ell, aerial photos, p	revious inspections)	, if available:			
,	0 0 7		. ,	•			
Remarks:							
1							

VEGETATION - Use scientific names of plants.				Sampling Point: 059B-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
1. Fraxinus pennsylvanica / Green ash	3	Yes	FACW	Total Number of Dominant
2.		_	<u> </u>	Species Across All Strata: 8 (B)
3.				
4		_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 62.5 (A/B)
6				
7				Prevalence Index worksheet:
	3	_ = Total Cov	er er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 5 x 1 = 5
Hamamelis virginiana / American witch-hazel	10	Yes	<u>FACU</u>	FACW species 33 x 2 = 66
2. Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	FAC species 20 x 3 = 60 FACU species 20 x 4 = 80
Lonicera morrowii / Morrow's honeysuckle	5	Yes	FACU	FACU species 20 x 4 = 80 UPL species 0 x 5 = 0
4				· — — — — — — — — — — — — — — — — — — —
5		_		
6		_		Prevalence Index = B/A = 2.71
7				Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed		Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Dryopteris intermedia / Evergreen wood fern	10	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Onoclea sensibilis / Sensitive fern	10	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Solidago rugosa / Wrinkle-leaf goldenrod	10	Yes	FAC	
5. Carex arctata / Drooping woodland sedge	5	No	OBL	¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				
8.				Definitions of Vegetation Strata
9.				
10	_	-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	_	-		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 1 7 01 1 (D) 1 1	55	_ = Total Cov	er er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4		T-4-1 O-1		Undrawhydia
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separat	e renort)			
Tremaino. (Explain alternative procedures here of in a separat	с тороп.,			

SOIL Sampling Point: ____059B-2W

Depth	ription: (Describe to th Matrix	ie aeptn ne		e indicator Features	or contirm	ine absen	ce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	5Y 4/1	90	7.5YR 5/8	10	C	PL	Clayey	
	· 							
-			-					
-				· 				
-								
-	· -		-	· 				
-	· · <u></u>		-	· ——				
1Typo: C=Co	ncentration, D=Depletion	n DM-Dod	Lood Matrix MS=Mac	od Sand Cr	oine.		2l ocation	n: PL=Pore Lining, M=Matrix.
Type. C=Col	TCertifation, D-Depletion	II, KIVI-KEUL		Red Salid Gi	ali is.		Location	i. PL-Pole Lilling, W-Wallix.
Hydric Soil I	ndicators:							r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Belov	Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic E	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	A 149B)	Coast Pr	airie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
_	en Sulfide (A4)		Loamy Gleyed N					face (S7) (LRR K, L)
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyvalu	e Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface (A	A11)	Redox Dark Sur					k Surface (S9) (LRR K, L)
_	ark Surface (A12)	•	Depleted Dark S					iganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depressi					t Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)			(- /				podic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							ent Material (F21)
	Matrix (S6)							allow Dark Surface (TF12)
	rface (S7) (LRR R, ML	RA 149R)						xplain in Remarks)
	riado (or) (Erritti, ine							xpiair ir romano)
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	natic.	
Restrictive L	.ayer (if observed):							
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No
								<u> </u>
Remarks:								

Project/Site:	19020 - South Ripley	City/Cou	unty: Chautaug	ua County	Sampling Date: 07/23/2020
Applicant/Owner:		nnectGen LLC	, <u> </u>	State: New York	
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		wn of Ripley
Landform (hillslope, terrace, et			cave, convex, none):		. ,
Subregion (LRR or MLRA):	I RR R MI RA 139		Long:		Datum: NAD 83
Soil Map Unit Name:		silt loam, 15-25 percent s		NWI classification	
Are climatic / hydrologic condit				no, explain in Remark	
, ,	, or Hydrology			Circumstances" prese	
· · · · · · · · · · · · · · · · · · ·	, or Hydrology			explain any answers in	·
SUMMARY OF FINDING	S - Attach site map s	nowing sampling p	oint locations, trans	sects, important	teatures, etc.
Hydrophytic Vegetation Pres	ent? Yes		Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	NoX
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland	Site ID:	
		<u> </u>		<u> </u>	
Remarks: (Explain alternativ	e procedures here or in a se	parate report.)			
HYDROLOGY					
Wetland Hydrology Indicat					
Primary Indicators (minimum	of one required; check all the	nat apply)			ators (minimum of two required)
Surface Water (A1)	_	_ Water-Stained Leaves	(B9)		l Cracks (B6)
High Water Table (A2)	_	_ Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	Lines (B16)
Water Marks (B1)		_ Hydrogen Sulfide Odor	· (C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres	s on Living Roots (C3)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	_	Presence of Reduced	Iron (C4)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	_	Thin Muck Surface (C7	` '		Position (D2)
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema		Shallow Aqu	
Sparsely Vegetated Co	- · · · · -		2		aphic Relief (D4)
	ioavo canado (Bo)			FAC-Neutra	·
				1710 1100110	1 1001 (50)
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X	Depth (inches):			
Saturation Present?	Yes No X	— · · · —	Wetland I	Hydrology Present?	Yes NoX
(includes capillary fringe)	··· <u></u>			.,	
(e.ace capa.)ge/					
Describe Recorded Data (str	eam gauge, monitoring well	, aerial photos, previous ir	nspections), if available:		
Remarks:					
1					

/EGETATION - Use scientific names of plants.				Sampling Point:060-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	111dt 7110 OBE, 1710VV, 01 1710.
1. Acer saccharum / Sugar maple	35	Yes	FACU	Total Number of Dominant
Fagus grandifolia / American beech	<u></u>	Yes	FACU	Species Across All Strata: 5 (B)
	15			Species Across Ali Strata 5 (B)
3. Betula alleghaniensis / Yellow birch	15	Yes	FAC	Description of Description of Control
4.				Percent of Dominant Species
5			·	That Are OBL, FACW, or FAC: 20.0 (A/B)
6		_		Prevalence Index worksheet:
7				
	65	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Rubus idaeus / Common red raspberry	10	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 15 x 3 = 45
3.				FACU species 105 x 4 = 420
4.				UPL species 0 x 5 = 0
5.				Column Totals:120 (A)465 (B
^				Prevalence Index = B/A = 3.88
7		_		
<i>1.</i>	10	= Total Cov		Hydrophytic Vegetation Indicators:
Lloub Chrotum (Diet sine) F	10	_ = 10(a) C0V	CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	45	\/	FAOLI	2 - Dominance Test is >50%
Thelypteris noveboracensis / New york fern	45	Yes	FACU	3 - Prevalence Index ≤3.0¹
2.				4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				<u> </u>
5				¹ Indicators of hydric soil and wetland hydrology must
6				
7				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.			- 	Definitions of Vegetation Strata
10.				Tree Moody plants 2 in (7.6 cm) or more in diameter at
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.		_		
12.	45	= Total Cov	or.	Sapling/shrub - Woody plants less than 3 in. DBH and
Monday Vine Stretum (Diet sine) 20	45	_ = 10(a) C0V	CI	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ate renort)			
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 060-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features (inches) Color (moist) % Loc² Color (moist) Type¹ Texture Remarks 10YR 2/1 100 8-0 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 8

Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	/EGETATION - Use scientific names of plants.				Sampling Point:060-1W
Absolute					Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status 1. Ager saccharum / Sugar maple 25					Number of Dominant Species
Testatum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata: 5 (B)		Absolute	Dominant	Indicator	·
Acer saccharum / Sugar maple 25 Yes FACU Species Across All Strata: 5 (B)	Tree Stratum (Plot size: 30)				,
Species Across All Strata: 5 (B)		-	_ —		Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)	2				
Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (A/B)	^				
That Are OBL, FACW, or FAC: 60.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				Percent of Dominant Species
Prevalence Index worksheet: Total Cover Total (Cover of the Indian Stratum (Plot size: 15) Total (Cover of the India Stratum (Plot size: 15) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the India Stratum of Plot size: 10) Total (Cover of the Ind	· · · · · · · · · · · · · · · · · · ·				·
Prevalence Index worksheet: Total % Cover of:	6				That Ale Obl., FACW, OF FAC
Total % Cover of:	<u> </u>				Prevalence Index worksheet:
Saping/Shrub Stratum	1.		- Total Cox		
1. Lonicar marrowii Morrow's honeysuckle 10 Yes FACU FACS species 25 x 3 = 75 FACS FAC	0 " (0) 0 - (Dist -i)		_ = 10tal Cov	er er	
Fraxinus pennsylvanica / Green ash 5 Yes FACW FAC FAC		10	.,	74.011	· — — — — — — — — — — — — — — — — — — —
3.					
4.					
4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 35 Yes FACW 2. Solidago rugosa / Wrinkie-leaf goldenrod 15 Yes FACW 3. Dryopteris intermedia / Evergreen wood fern 10 No FAC 5. Dryopteris carthusiana / Spinulose wood fern 5 No FACW 6. 7. 8. 9. 10. 10. 11. 12. 13. 14. 15. = Total Cover	3				<u> </u>
5. Column lotals: 110 (A) 315 (B) Prevalence ladex = B/A = 2.86 7. Herb Stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 35 Yes FACW 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 Yes FAC 3. Dryopteris intermedia / Evergreen wood fern 10 No FAC 4. Impatiens capensis / Spotted jewelweed 5 No FACW 5. Dryopteris carthusiana / Spinulose wood fern 5 No FACW 6.	4				
6. 7.	_				\',\',
Total Cover	•				Prevalence Index = B/A = 2.86
Herb Stratum (Plot size: 5) 15	-				
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 35	· · ·	15	= Total Cov	/er	
1. Onoclea sensibilis / Sensitive ferm 35 Yes FACW Solidago rugosa / Wrinkle-leaf goldenrod 15 Yes FAC Dryopteris intermedia / Evergreen wood fern 10 No FAC Impatiens capensis / Spotted jewelweed 5 No FACW 5. Dryopteris carthusiana / Spinulose wood fern 5 No FACW 6. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Harh Stratum (Plot size: 5			Ci	1 - Rapid Test for Hydrophytic Vegetation
2. Solidago rugosa / Wrinkle-leaf goldenrod 3. Dryopteris intermedia / Evergreen wood fern 4. Impatiens capensis / Spotted jewelweed 5. No FACW 5. Dryopteris carthusiana / Spinulose wood fern 6		35	Vac	5AC\A/	X 2 - Dominance Test is >50%
2. Solidago rugosa i Wrinnici-lear goldenrod 3. Dryopteris intermedia / Evergreen wood fern 4. Impatiens capensis / Spotted jewelweed 5. No FACW 5. Dryopteris carthusiana / Spinulose wood fern 6.	· · · · · · · · · · · · · · · · · · ·				X 3 - Prevalence Index ≤3.0¹
3. Dryopteris intermedia Evergreen wood tern 10 No FAC					
5. Dryopteris carthusiana / Spinulose wood fern 6.					-
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			No		
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	5. Dryopteris carthusiana / Spinulose wood fern	5	No	FACW	1Indicators of hydric soil and wetland hydrology must
7. B. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) 1. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. Woody vines - All woody vines greater than 3.28 ft in height.	6				
8					De present, unless disturbed of problematic.
9	0				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O	0				Deminions of Vegetation of the
11					To - Mandy plants 2 in (7.6 cm) or more in diameter at
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:	11				
Woody Vine Stratum (Plot size:30) 1	12				
Woody Vine Stratum (Plot size: 30) 1	12.		- Total Cov		
1	Manager Mine Official (Diet size)		101a1 001	rei	
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation					
3 height. 4 0 = Total Cover Hydrophytic Vegetation					
3	2				
0 = Total Cover Hydrophytic Vegetation	3				
Vegetation	4				
		0	= Total Cov	/er	Hydrophytic
		_	_		Vegetation
Remarks: (Explain alternative procedures here or in a separate report.)	•	• •			

SOIL Sampling Point: 060-1W

Depth	Matrix		eded to document the Redox	x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 4/1	90	10YR 5/8	10	С	М	Gravelly loam			
			-							
			-							
			-							
	_									
		- DM D	Nation NO Mark				21	# DL D	Linin - NA NA	1-4-0-
Type: C=Conc	entration, D=Depletion	n, RIVI=Real	uced Matrix, MS=Masl	kea Sana Gra	ains.		Loca	ition: PL=P	ore Lining, M=M	iatrix.
lydric Soil Ind	licators:						Indicators	for Proble	ematic Hydric S	Soils³:
Histosol (A	A1)		Polyvalue Belov	v Surface (S8	3) (LRR R,	MLRA 149	9B) 2 cm	Muck (A10) (LRR K, L, MI	LRA 149B)
Histic Epip	edon (A2)		Thin Dark Surfa			(149B)	Coas	t Prairie Re	dox (A16) (LR	R K, L, R)
Black Histi	ic (A3)		Loamy Mucky N	Mineral (F1) (LRR K, L)		5 cm	Mucky Pea	t or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
	₋ayers (A5)		Depleted Matrix	. ,					Surface (S8) (· •
	Below Dark Surface (A	\11)	Redox Dark Sur						ce (S9) (LRR K	
	Surface (A12)		X Depleted Dark S					-	Masses (F12)	
	cky Mineral (S1)		Redox Depress	ions (F8)				-	olain Soils (F19)	-
	eyed Matrix (S4)								46) (MLRA 14	4A, 145, 149B)
Sandy Red							_	Parent Mate		0)
Stripped M		DA 440D)							rk Surface (TF1	2)
Dark Suna	ace (S7) (LRR R, ML	RA 149B)					Other	(Explain in	i Remarks)	
				resent unles	s disturbed	or probler	matic			
Indicators of h	vdrophytic vegetation	and wetland	i nvaroloav must be b							
	ydrophytic vegetation	and wetland	nyarology must be p							
Restrictive Lay	yer (if observed):	and wetland	nydrology must be p							
Restrictive Lay	yer (if observed):		a nyarology must be p							
Restrictive Lay	yer (if observed):	and wetland	a nyarology must be p				Hydric Soil P	resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock nes):		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No
Restrictive Lay Type: Depth (inch	yer (if observed): Rock		a nydrology must be p					resent?	Yes X	No

Project/Site:	19020	- South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/23/2020
Applicant/Owner:			nectGen LLC	,		•	ate: New York		061-1U
Investigator(s):	Matt Sr	padoni & Joe Gallo		Section.	Township, Ran			wn of Ripley	
Landform (hillslope, terra	•		Local r		ave, convex, n		Concave	Slope	: (%): 0-5
Subregion (LRR or MLRA		RR R MLRA 139	Lat:	· ·	20797435	Long:	-79.715734	·	(
Soil Map Unit Name:	· ——		silt loam, 3-8 p				NWI classification		
Are climatic / hydrologic o						(If no,	explain in Remark	-	
Are Vegetation							cumstances" prese	•	X No
		, or Hydrology	•	•			ain any answers in		
SUMMARY OF FINE						· ·	•	•	
Hydrophytic Vegetation		Yes	No X		Is the Samp		, , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	TT TC3CTIL:	Yes	NoX	_	within a We		Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	_		al Wetland Site			_
- Trousiana Tryarology Tro				_	, 00, 00				
Remarks: (Explain alte	rnative procedu	ires here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology In	dicators:								
Primary Indicators (mir		aduired: check all th:	at apply)				Secondary Indica	ators (minimum of t	two required)
Surface Water (A1		-quired, orlean une	Water-Staine	d Leaves (I	R9)	_		l Cracks (B6)	wo required)
High Water Table	•		Aquatic Faun	,	55)			atterns (B10)	
Saturation (A3)	(, 12)		Marl Deposits	` '			Moss Trim I		
Water Marks (B1)			Hydrogen Su		(C1)			Water Table (C2)	
Sediment Deposit					on Living Roof	ts (C3)	Crayfish Bu		
Drift Deposits (B3)			Presence of I	-	-	.5 (55)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust	•				n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (B5)			Thin Muck Su		•	,		Position (D2)	• ,
Inundation Visible		ery (B7)	Other (Explai	, ,			Shallow Aq		
Sparsely Vegetate	-				,			aphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations:		N V	D # # #	,					
Surface Water Present		S NoX		-					
Water Table Present?		S NoX	_ ' '	· —				.,	N. V
Saturation Present?	Yes	s NoX_	_ Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	e)								
Describe Recorded Da	ta (stream gaug	ge, monitoring well,	aerial photos, p	orevious ins	spections), if a	vailable:			
Remarks:									

EGETATION - Use scientific names of plants.				Sampling Point:	061-1U
				Dominance Test worksheet:	
				Number of Dominant Species	
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0	(A)
Tree Stratum (Plot size:)	%Cover	Species?	Status		
Fagus grandifolia / American beech	35	Yes	FACU	Total Number of Dominant	
2. Tsuga canadensis / Eastern hemlock	30	Yes	<u>FACU</u>	Species Across All Strata: 5	(B)
3.					
4				Percent of Dominant Species	(A (D)
5				That Are OBL, FACW, or FAC: 0.0	(A/B)
6. 7.			 	Prevalence Index worksheet:	
7	65	= Total Cov		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)		10(a) 000	Ci	OBL species 0 $x = 0$	
1. Lonicera morrowii / Morrow's honeysuckle	10	Yes	FACU	FACW species 0 x 2 = 0	
2.	-			FAC species 0 x 3 = 0	
3.	, <u></u>			FACU species 125 x 4 = 500	
4.				UPL species 0 x 5 = 0	
5.				Column Totals:125 (A)500	(B)
6				Prevalence Index = B/A = 4.0	
7		_		Hydrophytic Vegetation Indicators:	
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size:5)				2 - Dominance Test is >50%	
1. Thelypteris noveboracensis / New york fern	40	Yes	FACU	3 - Prevalence Index ≤3.0¹	
2. Acer saccharum / Sugar maple	10	Yes	FACU	4 - Morphological Adaptations (Provide suppo	orting
3		_		Problematic Hydrophytic Vegetation¹ (Explain	-
4					,
5.				¹ Indicators of hydric soil and wetland hydrology m	ust
6.		-		be present, unless disturbed or problematic.	
7					
8				Definitions of Vegetation Strata	
9					
10.				Tree - Woody plants 3 in. (7.6 cm) or more in dian breast height (DBH), regardless of height.	neter at
11 12		_			
12	50	= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBI greater than or equal to 3.28 ft (1 m) tall.	H and
Woody Vine Stratum (Plot size: 30)			OI .	Herb - All herbaceous (non-woody) plants, regard	lloop of
1				size, and woody plants less than 3.28 ft tall.	iless oi
2.				Woody vines - All woody vines greater than 3.28	ft in
3.		_		height.	11 111
4.	,				
	0	= Total Cov	er	Hydrophytic	
		_		Vegetation	
				Present? Yes No X	_
Remarks: (Explain alternative procedures here or in a separate	rate report.)				

SOIL Sampling Point: 061-1U

Depth	cription: (Describe to the Matrix			x Features			,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	LOC ²	Texture	Rem	arks	
0-2	10YR 2/1	100					Loam			
2-8	10YR 3/3	100					Loam			
	· ·									
	· ·									
			•							
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Location:	PL=Pore Lining	, M=Matrix.	
lydric Soil I	Indicators:						Indicators for	Problematic Hy	rdric Soile ³ :	
-			Dobavoluo Polo	v Curfoss (CC) (I DD D MI	DA 440B		k (A10) (LRR K ,		D)
Histosol			Polyvalue Belov					. ,		•
	pipedon (A2)		Thin Dark Surfa			30)		irie Redox (A16)		
	istic (A3)		Loamy Mucky N		LKK N, L)			ky Peat or Peat (-, K)
	en Sulfide (A4)		Loamy Gleyed					ace (S7) (LRR I	· •	`
	d Layers (A5)	\44\	Depleted Matrix					Below Surface (-)
	d Below Dark Surface (A	A11)	Redox Dark Su	, ,				Surface (S9) (L		. D)
	ark Surface (A12)		Depleted Dark					anese Masses (
′	Mucky Mineral (S1)		Redox Depress	ions (F8)				Floodplain Soils		
	Gleyed Matrix (S4)							odic (TA6) (MLF		1496)
	Redox (S5)							nt Material (F21)		
	d Matrix (S6)	DA 440D)						ow Dark Surface		
Dark Su	ırface (S7) (LRR R, ML	.KA 149B)					Other (Ex	olain in Remarks	5)	
³Indicators of	f hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	s disturbed or	problema	atic.			
			, , ,							
	Layer (if observed):									
Type:	opos).						Hydria Sail Brasa	nt? Voc	No	~
Depth (in	icries).						Hydric Soil Prese	nt? Yes _	No	
Remarks:	D t f 1 - t 0									
	Root refusal at 8									

Project/Site:	19020 - South Ripley	City/Co	ounty:	Chautauqua Co	ounty	Sampling Date:	07/23/2020
Applicant/Owner:		ectGen LLC	,	· · · · · · · · · · · · · · · · · · ·	e: New York	· · ·	061-1W
Investigator(s):	Matt Spadoni, Joe Gallo		n, Township, Rang			wn of Ripley	
Landform (hillslope, terrace, etc			ncave, convex, no		Concave	Slope	: (%): 0-5
Subregion (LRR or MLRA):			2.20804849	Long:	-79.715749		· · ·
Soil Map Unit Name:		akoin silt loam 3-8%			NWI classificati		
Are climatic / hydrologic conditi				(If no, e	xplain in Remarl	-	
Are Vegetation, Soil				` `	ımstances" pres	•	X No
	, or Hydrology				n any answers ir		
SUMMARY OF FINDING				•	-	•	
Hydrophytic Vegetation Pres	-		Is the Sampl		-, <u>,</u>	,	
Hydric Soil Present?	Yes X	No	within a Wet		Yes X	No	
Wetland Hydrology Present?		No		al Wetland Site		Wetland 61	=
Wettaria Tryarology i Tesent:	103 <u>X</u>		ii yes, optione	ai vvetiana one		vvctiaria o i	
Remarks: (Explain alternative	e procedures here or in a sepa	rate report.)					
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
	of one required; check all that	apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	•	Water-Stained Leaves	s (B9)		Surface So	il Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)	,		X Drainage P		
Saturation (A3)		Marl Deposits (B15)				Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)			n Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizosphere		s (C3)	Crayfish Bu	, ,	
Drift Deposits (B3)		Presence of Reduced	_	- (/		Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	` ,	26)		Stressed Plants (D1	
Iron Deposits (B5)	-	Thin Muck Surface (C	-	,		c Position (D2)	• 7
Inundation Visible on A	-	Other (Explain in Rem	•		Shallow Aq		
Sparsely Vegetated Cor	- · · · ·					raphic Relief (D4)	
	(20)				X FAC-Neutra		
						. ,	
Field Observations:							
Surface Water Present?	Yes NoX	· · · · · · · 					
Water Table Present?	Yes X No	Depth (inches):	8				
Saturation Present?	Yes X No	Depth (inches):	6	Wetland Hydro	ology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (str	eam gauge, monitoring well, a	erial photos previous	inspections) if av	vailable:			
2000.100 1 1000.100 2010 (01	oam gaage, memering neil, a	onal photos, promose	,,				
Remarks:							

Tree Stratum (Plot size: 30) 1. Acer saccharum / Sugar maple 2. Fagus grandifolia / American beech				
Tree Stratum (Plot size: 30) 1. Acer saccharum / Sugar maple 2. Fagus grandifolia / American beech				Dominance Test worksheet:
Tree Stratum (Plot size: 30) 1. Acer saccharum / Sugar maple 2. Fagus grandifolia / American beech				Number of Dominant Species
Tree Stratum (Plot size: 30) 1. Acer saccharum / Sugar maple 2. Fagus grandifolia / American beech	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Acer saccharum / Sugar maple Fagus grandifolia / American beech	%Cover	Species?	Status	(,
2. Fagus grandifolia / American beech	10	Yes	FACU	Total Number of Dominant
	5	Yes	FACU	
			FACU	Species Across All Strata: 6 (B)
3				
4.				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.7 (A/B)
6				
7				Prevalence Index worksheet:
	15	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		-		OBL species 35 x 1 = 35
1. Lindera benzoin / Northern spicebush	20	Yes	FACW	FACW species 50 x 2 = 100
			- 171077	FAC species 10 x 3 = 30
2				FACU species 15 x 4 = 60
3				UPL species 0 x 5 = 0
4				
5				Column Totals: 110 (A) 225 (B)
6				Prevalence Index = B/A = 2.05
7.				
	20	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			5 1	1 - Rapid Test for Hydrophytic Vegetation
	25	Vaa	ODI	X 2 - Dominance Test is >50%
1. Carex stipata / Awlfruit sedge	35	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
2. Impatiens capensis / Spotted jewelweed	15	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Onoclea sensibilis / Sensitive fern	15	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Dryopteris intermedia / Evergreen wood fern	10	No	FAC	Problematic Hydrophytic vegetation (Explain)
5.			· ———	
6	-	-		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.				
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.			-	Sapling/shrub - Woody plants less than 3 in. DBH and
	75	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)			J.	
				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4.				
	0	= Total Cove	er	Hydrophytic
		_		Vegetation
				Present? Yes X No
				Fresent: 165 A NO

SOIL Sampling Point: 061-1W

Depth	Matrix		Redox	k Features			nce of indicators			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	-	Remarks	
0-2	10YR 2/1	95	10YR 5/8	5	С	PL	Loamy			
2-8	10YR 6/1	80	10YR 6/8	20	C	PL,M	Clayey loam			
		- DM Dad	d Matric MO Mad				21	tion DL D	Lining NA NASA	
ype: C=Con	centration, D=Depletion	on, RIVI=Real	uced Matrix, MS=Masi	ked Sand Gr	ains.		-Loca	tion: PL=P	ore Lining, M=Matri	X.
dric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric Soil	s³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149	9B) 2 cm	Muck (A10) (LRR K, L, MLRA	149B)
_ Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)			dox (A16) (LRR K	
Black His			Loamy Mucky M		(LRR K, L)				it or Peat (S3) (LRI	R K, L, R)
	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
_	Layers (A5)		X Depleted Matrix						Surface (S8) (LRI	· •
	Below Dark Surface (A11)	Redox Dark Sur						ce (S9) (LRR K, L)	
	rk Surface (A12)		Depleted Dark S					-	Masses (F12) (LI	
_	ucky Mineral (S1)		Redox Depressi	ions (F8)					olain Soils (F19) (M	
_	leyed Matrix (S4)								A6) (MLRA 144A ,	145, 149B
_	edox (S5)							Parent Mate		
	Matrix (S6)								rk Surface (TF12)	
_ Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other	(Explain ir	Remarks)	
ndicators of	hydronhytic vegetation	and wetland	d hydrology must be n	resent linies	se distiirned	or propier	natic			
	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unies	ss disturbed	or probler	natic.			
estrictive L	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unies	ss disturbed	or probler	natic.			
estrictive L	ayer (if observed):	and wetland		resent, unies	ss disturbed	or probler				
estrictive L	ayer (if observed):			resent, unies	ss disturbed	or probler	Hydric Soil P	resent?	Yes X	No
Type:	ayer (if observed):			resent, unies	ss disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	ss disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes <u>X</u>	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
strictive Landscape Depth (incommarks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive L. Type: Depth (inc	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive L. Type: Depth (inc	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive L. Type: Depth (inc	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive L. Type: Depth (inc	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Land Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No
estrictive Landscape Type: Depth (incommerks:	ayer (if observed):			resent, unies	s disturbed	or probler		resent?	Yes X	No

Project/Site:	19020	- South Riple	٠V	City/Cou	ınty:	Chautauqua (County	Sampling Date:	06/30/2020
Applicant/Owner:			ConnectGen I			•	ate: New York		06-1W
Investigator(s):	Matt Spa	doni & Sam	Parker	Section,	Township, Rai	nge:	To	wn of Ripley	
Landform (hillslope, terrace	e, etc):	Gulch, floo	dplain L	ocal relief (cond	cave, convex, r	none):	Concave	Slope	e (%): 0-4
Subregion (LRR or MLRA)		RR R MLRA		at: 42	.17977421	Long:	-79.668239	09 Datur	m: NAD 83
Soil Map Unit Name:		F	luvaquents-Udif	luvents comple	x		NWI classification	on:	PEM
Are climatic / hydrologic co	nditions on the	e site typical	for this time of y	ear? Yes	X No	(If no,	explain in Remark	(s.)	
Are Vegetation,	Soil	, or Hydrolog	ıysigni	ficantly disturbe	ed?	Are "Normal Circ	cumstances" prese	ent? Yes	X No
Are Vegetation,	Soil	, or Hydrolog	ıynatur	ally problemati	c? (If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIND	INGS - Atta	ach site m	ap showing	sampling p	oint location	ons, transec	ts, important	features, etc.	
Hydrophytic Vegetation I	Present?	Yes	X No		Is the Samp	oled Area			
Hydric Soil Present?		Yes	X No		within a We		Yes X	No	
Wetland Hydrology Pres	ent?	Yes	X No			nal Wetland Site		Wetland 6	_
, 0,									
Remarks: (Explain alterr	native procedu	res here or ir	n a separate rep	ort.)					
HYDROLOGY									
	liantara								
Wetland Hydrology Ind		auirod: oboo	k all that apply)				Cocondon, India	atora (minimum of	two required)
Primary Indicators (minir		quirea; cneci		Nained Leeves	(D0)			ators (minimum of t	(wo required)
X Surface Water (A1)				Stained Leaves	(B9)			l Cracks (B6)	
X High Water Table (A	42)			Fauna (B13)				atterns (B10)	
X Saturation (A3)				posits (B15)	(04)		Moss Trim I		
Water Marks (B1)	(50)			en Sulfide Odor	,	. (00)		Water Table (C2)	
X Sediment Deposits	(B2)			d Rhizospheres	•	ots (C3)	X Crayfish Bu		
Drift Deposits (B3)				ce of Reduced				/isible on Aerial Im	
Algal Mat or Crust (B4)			Iron Reduction		(C6)		Stressed Plants (D	1)
Iron Deposits (B5)				ıck Surface (C7			X Geomorphic		
X Inundation Visible of	-	•	Other (E	Explain in Rema	arks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	I Concave Sur	face (B8)						aphic Relief (D4)	
							X FAC-Neutra	Il Test (D5)	
Field Observations:									
Surface Water Present?	Yes	X No	Depth	(inches):	4-24				
Water Table Present?	Yes			(inches):	18				
Saturation Present?	Yes			(inches):	14	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe		<u> </u>	Верин	(11101103).	1-7	Welland Hya	rology i resent.	100 <u>X</u>	
(moldaes capillary innige	,								
Describe Recorded Data	a (stream gaug	je, monitorin	g well, aerial pho	otos, previous ir	nspections), if a	available:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:06-1W
Tree Stratum (Plot size: 30)	Absolute %Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
1				Total Number of Dominant Species Across All Strata: 3 (B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
7.		= Total Cov		Prevalence Index worksheet:
	5		FACW	OBL species 30 x 1 = 30 FACW species 15 x 2 = 30 FAC species 45 x 3 = 135 FACU species 3 x 4 = 12
5. 6.	-			UPL species 3 x 5 = 15 Column Totals: 96 (A) 222 (B) Prevalence Index = B/A = 2.31
7. Herb Stratum (Plot size:5)			er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Eutrochium purpureum / Sweet-scented joe-pye-weed	45	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
2. Carex aquatilis / Water sedge	25	Yes	OBL	4 - Morphological Adaptations (Provide supporting
3. Eupatorium perfoliatum / Common boneset	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Myosotis scorpioides / Forget me not, Water forget-me-not	5	No No	OBL	
5. Solidago canadensis / Canada goldenrod	3	No No	FACU	¹Indicators of hydric soil and wetland hydrology must
6. Asclepias syriaca / Common milkweed	3	No	UPL	be present, unless disturbed or problematic.
7. 8. 9.				Definitions of Vegetation Strata
10. 11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.	91		er	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:				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. 4.				Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cov	er	Hydrophytic Vegetation
Remarks: (Explain alternative procedures here or in a separate	report.)			Present? Yes X No

SOIL Sampling Point: 06-1W

Depth	ription: (Describe to the Matrix	ie uepin ne		Features	or contirm	uie abser	ice of mulcators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 4/1	90	5YR 4/6	10	C	PL	Loamy clay	
_			_					
				· ——				
			-					
¹Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	uced Matrix, MS=Mask	ed Sand Gr	ains.		²Location	n: PL=Pore Lining, M=Matrix.
		•	,					
Hydric Soil I				0 6 (0)				r Problematic Hydric Soils³:
Histosol			Polyvalue Below					ck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Surfa			A 149B)		airie Redox (A16) (LRR K, L, R)
_	stic (A3)		Loamy Mucky M		(LRR K, L)			cky Peat or Peat (S3) (LRR K, L, R)
_	en Sulfide (A4)		Loamy Gleyed N					face (S7) (LRR K, L)
	d Layers (A5)		X Depleted Matrix					e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A	A11)	Redox Dark Sur					k Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Dark S					iganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	Sleyed Matrix (S4)						Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)						Red Pare	ent Material (F21)
Stripped	l Matrix (S6)						Very Sha	allow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other (E:	xplain in Remarks)
3ladicators of		andatlana					aatia	
- Indicators of	hydrophytic vegetation	and welland	Trydrology must be pi	eseni, unies	ss disturbed	or problem	nauc.	
	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No
Remarks:								

Project/Site:	19020 -	- South Ripley		City/Count	tv:	Chautauqua	County	Sampling Date:	07/23/2020
Applicant/Owner:		<u> </u>	nectGen LLC		·		ate: New York		062-1U
Investigator(s):	Matt Sp:	adoni & Joe Gallo		Section, To	ownship, Rand			wn of Ripley	
Landform (hillslope, terra			Local r		ve, convex, no	·	Convex		e (%): 0-5
Subregion (LRR or MLR/		RR R MLRA 139			-, , -	·		Datu	` '
Soil Map Unit Name:	, <u> </u>		loam, 0-3 perd				NWI classification		
Are climatic / hydrologic	conditions on the		•		. No	(If no.	explain in Remark	-	
Are Vegetation			•	ly disturbed		` '	cumstances" prese	•	X No
		, or Hydrology	•	•			ain any answers in		
SUMMARY OF FIN						-	•		
		Yes					rto, important	10010100, 0101	
Hydrophytic Vegetation Hydric Soil Present?	i Fieseiit!	Yes X	_ NoX No	_	Is the Sample within a Wetl		Voc	No. V	
Wetland Hydrology Pre	ocont?	Yes	No X	_	If yes, optiona			NoX	_
Welland Hydrology Fre	35em?		_ NO	_	ii yes, opiiona	ai vvelianu Sili	= ID		
Remarks: (Explain alte	rnative procedui	res here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology In		quirod: obook all the	ot apply)				Cocondon, India	atora (minimum of	two required)
Primary Indicators (min		Julieu, Check all tha	Water-Staine	d Logyop (P	20)			ators (minimum of	two required)
Surface Water (A High Water Table	,		Aquatic Faur	•	59)			l Cracks (B6) atterns (B10)	
Saturation (A3)	(AZ)		Marl Deposit	,			Moss Trim I		
Water Marks (B1)		_	Hydrogen Su		C1)			i Water Table (C2)	
Sediment Deposit	•	_			on Living Roots	c (C3)	Crayfish Bu	` ,	
Drift Deposits (B3			Presence of	-	-	s (C3)		/isible on Aerial Im	22227 (CO)
I — ' '	-					`6\			
Algal Mat or Crus		_			Tilled Soils (C	,0)		Stressed Plants (D	, i)
Iron Deposits (B5 Inundation Visible	-		Thin Muck So Other (Explain	. ,	ko)		Shallow Aq	Position (D2)	
Sparsely Vegetate	_	• • • —	Otrier (Explai	III III Neillair	NS)			raphic Relief (D4)	
Sparsely vegetate	su Concave Sun	ace (DO)					FAC-Neutra		
Field Observations:									
Surface Water Present	t? Yes	NoX	_ ' `	· —					
Water Table Present?	Yes	NoX	_ ' '						
Saturation Present?	Yes	NoX	_ Depth (inch	es):		Wetland Hyd	rology Present?	Yes	NoX
(includes capillary fring	je)								
Describe Recorded Da	ata (stream gaug	e monitoring well :	aerial nhotos r	arevious inst	nections) if av	ailahla:			
Describe Necorded Da	ita (stream gaug	e, monitoring well, a	aeriai priotos, p	Jievious ilisį	pections), ii av	allable.			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:062-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Trac Chrotum (Diet sine) 20				That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	7
Acer saccharum / Sugar maple	35	Yes	FACU	Total Number of Dominant
2. Fagus grandifolia / American beech	20	Yes	<u>FACU</u>	Species Across All Strata: 4 (B)
3				
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.				
				Prevalence Index worksheet:
7	 55	= Total Cov	er	Total % Cover of: Multiply by:
Opening a (Ohamila Ohamila)		_ = 10(a) C0V	Ci	OBL species 0 $x = 0$
Sapling/Shrub Stratum (Plot size:)				FACW species 0 x 2 = 0
1		_		
2				FAC species 0 x 3 = 0
3				FACU species135 x 4 =540
4				UPL species 0 x 5 = 0
5.				Column Totals:135 (A)540 (B)
•				Prevalence Index = B/A = 4.0
7		_		
<i>1.</i>		T-4-1 O		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Solidago altissima / Canada goldenrod	70	Yes	FACU	3 - Prevalence Index ≤3.0¹
2				 -
3				4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
F				
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
····	70	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_ = 10tai 00v	Ci	
<u> </u>	40		E4 01 1	Herb - All herbaceous (non-woody) plants, regardless of
1. Parthenocissus quinquefolia / Virginia creeper	10	Yes	<u>FACU</u>	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	10	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			
(p	/			

SOIL Sampling Point: 062-1U

Depth	ription: (Describe to the Matrix	e uepui need		re indicator k Features	or contillin	uie abser	ice oi muicator	ə. _]
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-3	10YR 2/1						Loam	
3-18	10YR 5/2	90	10YR 5/6	10	С	М	Clayey loam	
					· <u></u>			
						,		
						,		
				_	·			
				-				
								-
					·			-
Type: C=Cor	centration, D=Depletion	n, RM=Reduc	ed Matrix, MS=Mask	ked Sand Gr	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil I	adicatore:						Indicators	s for Problematic Hydric Soils³:
-			Dobarduo Polov	v Curfoco (C	0\ // DD D	MI DA 440		•
Histosol	•	_	Polyvalue Belov	•				Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	Thin Dark Surfa			149B)		t Prairie Redox (A16) (LRR K, L, R)
Black His	` '	-	Loamy Mucky M		(LKK K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	=	Loamy Gleyed N					Surface (S7) (LRR K, L)
	Layers (A5)	_	X Depleted Matrix					ralue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A		Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	_	Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	_	Redox Depressi	ions (F8)				mont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							C Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Sui	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland h	nydrology must be p	resent, unles	ss disturbed	or problen	natic.	
Postriotivo I	aver (if absorted):							
	ayer (if observed):							
Type:	phos):		<u> </u>				Hydria Sail B	recent? Yes Y No
Depth (in	cnes):						Hydric Soil P	resent? Yes <u>X</u> No
Remarks:								

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	a County	Sampling Date:	07/23/2020
Applicant/Owner:		ConnectGen LLC	_	(State: New York	Sampling Point:	062-1W
Investigator(s):	Matt Spadoni, Joe Ga	lo	Section, Towns	hip, Range:	Tov	wn of Ripley	
Landform (hillslope, terrace, et	c): Hillside seep, bowl-s	shaped der Local r	elief (concave, c	onvex, none):	Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):	LRR R MLRA 139	Lat:	42.20816	B07 Long:	-79.716893	89 Datum	n: NAD 83
Soil Map Unit Name:		Busti silt loam 0	-3%		NWI classification	on: <u>F</u>	PEM
Are climatic / hydrologic condit	ions on the site typical for	this time of year?	Yes X	No (If n	o, explain in Remark	s.)	
Are Vegetation, Soil	, or Hydrology	significant	ly disturbed?	Are "Normal C	Circumstances" prese	ent? Yes X	(No
Are Vegetation, Soil	, or Hydrology	naturally p	roblematic?	(If needed, exp	plain any answers in	Remarks.)	
SUMMARY OF FINDING	SS - Attach site ma	showing san	npling point	ocations, transe	ects, important	features, etc.	
Hydrophytic Vegetation Pres	sent? Yes	X No	ls th	e Sampled Area			
Hydric Soil Present?	Yes	X No		in a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes	X No	If ve	s, optional Wetland S		Wetland 62	_
. 0,							
Remarks: (Explain alternativ	e procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
Primary Indicators (minimum		Il that apply)			Secondary Indica	ators (minimum of to	wo required)
X Surface Water (A1)			d Leaves (B9)		-	l Cracks (B6)	
X High Water Table (A2)		Aquatic Faur	` '		X Drainage Pa	` ,	
X Saturation (A3)		Marl Deposits	` '		Moss Trim L		
Water Marks (B1)			Ifide Odor (C1)			Water Table (C2)	
Sediment Deposits (B2	1	X Oxidized Rhi		ring Roots (C3)	Crayfish Bu		
Drift Deposits (B3))		Reduced Iron (C	-		/isible on Aerial Ima	ageny (CQ)
			=	•			
Algal Mat or Crust (B4)			Reduction in Tille	u Solis (Co)		Stressed Plants (D1	,
Iron Deposits (B5)	orial Images (DZ)	Thin Muck St	` ,		X Geomorphic		
Inundation Visible on A		Other (Explai	in in Remarks)		Shallow Aqu		
Sparsely Vegetated Co	ncave Surface (B8)				X FAC-Neutra	raphic Relief (D4)	
				•	X TAC-Neutla	ii lest (D3)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 0-6				
Water Table Present?	Yes X No	Depth (inch	es):16				
Saturation Present?	Yes X No	Depth (inch	es): 12	Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Described Date (et		all assistantes a		na) if available.			
Describe Recorded Data (st	ream gauge, monitoring v	/eii, aeriai pnotos, p	previous inspecti	ons), if available:			
Remarks:							

Absolute Absolute Species Number of Dominant Indicator Species Status Spe	
Absolute	(B) (A/B)
Tree Stratum (Plot size: 30	(B) (A/B)
1.	(B) (A/B)
2.	(A/B)
A.	(A/B)
A.	(A/B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7	/:
That Are OBL, FACW, or FAC: 66.7 For a comparison of the problem attempt of the problem	/:
Prevalence Index worksheet: Total % Cover of: Multiply by	/:
Tree - Woody Vine Stratum (Plot size:	
Total Cover Total Cover Total Cover Subtlitive Sapling/Shrub Stratum (Plot size: 15) Total Cover Stratum (Plot size: 15) Separate Stratum	
Sapling/Shrub Stratum (Plot size:	
FACW species 50	
2.	<u> </u>
A	
UPL species 0 x 5 = 0 Column Totals: 105 (A) 238 Prevalence Index = B/A = 2.24	
Column Totals: 105 (A) 238 Prevalence Index = B/A = 2.24 Prevalence Index = B/A = 2.24 Pr	
Prevalence Index = B/A = 2.24	5 (B)
The stratum (Plot size: 5) 1. Onoclea sensibilis / Sensitive fern 2. Carex / Sedge 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago altissima / Canada goldenrod 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10.	(3)
Herb Stratum (Plot size:	
Herb Stratum (Plot size: 5 1 2 2 2 2 2 2 2 2 2	
Perb Stratum (Plot size: 5 5 1 1 2 2 2 2 2 2 3 1 2 2 2 3 1 2 2 3 3 1 2 3 4 1 3 3 2 2 3 3 2 2 3 3	
2. Carex / Sedge 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago altissima / Canada goldenrod 5. 6. 7. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
25 Yes OBL 3. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago altissima / Canada goldenrod 5.	
3. Solidago rugosa / Wrinkle-lear goldenrod 4. Solidago altissima / Canada goldenrod 5.	oortina
4. Solidago aitissima / Canada goldenrod 5.	_
Indicators of hydric soil and wetland hydrology in the present, unless disturbed or problematic.	"'')
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in dia breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DE greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regard size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 height.	nuet
7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in dia breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DE greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regar size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.26 height.	iust
8	
9.	
Tree - Woody plants 3 in. (7.6 cm) or more in dia breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DE greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regarding size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Height.	
11	meter at
Sapling/shrub - Woody plants less than 3 in. DE greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regar size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.29 ft eight.	motor at
Woody Vine Stratum (Plot size: 30) 1.	Nne HS
Woody Vine Stratum (Plot size: 30) 1	n i ana
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.29 ft tall. 4. height.	dless of
2. Woody vines - All woody vines greater than 3.2. height.	uless of
3. height.	0.64.5
4.	3 IL IN
0 = Total Cover Hydrophytic Vegetation	
Present? Yes X No	

SOIL Sampling Point: <u>062-1W</u>

Depth	Matrix			k Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 4/1	80	7.5YR 5/8	20	С	PL,M	Clayey			
8-18	5Y 4/1	80	7.5 YR 5/8	20	С	М	Clayey			
								-		
			-							
			-							
			-							
					<u> </u>					
Type: C=Cond	centration, D=Depletio	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ition: PL=P	ore Lining, M=Ma	trix.
Hydric Soil In	dicators:						Indicators	for Proble	ematic Hydric So	oils³:
Histosol (Polyvalue Belov	v Surface (S	3) (LRR R,	MLRA 149E) (LRR K, L, MLF	
	pedon (A2)		Thin Dark Surfa						dox (A16) (LRR	•
Black His			Loamy Mucky M			•			t or Peat (S3) (L	
	Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	
	Layers (A5)		X Depleted Matrix				Polyv	alue Below	Surface (S8) (L	RR K, L)
X Depleted	Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin	Dark Surfac	ce (S9) (LRR K,	L)
Thick Dar	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-I	Manganese	Masses (F12) (LRR K, L, R)
Sandy Mı	ucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	nont Floodp	olain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesi	Spodic (T	46) (MLRA 144	A, 145, 149B)
Sandy Re	edox (S5)						Red I	Parent Mate	erial (F21)	
Stripped !	Matrix (S6)						Very	Shallow Da	rk Surface (TF12)
Dark Surf	face (S7) (LRR R, ML	_RA 149B)					Other	r (Explain in	Remarks)	
			d leveled a merce de la com				-#:-			
Sladiontoro of b		ano wellanc	i nyarology must be p	resent, unies	s disturbed	or problema	auc.			
3Indicators of h	nydrophytic vegetation									
	ayer (if observed):									
Restrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes <u>X</u>	No
Restrictive La Type: Depth (inc	ayer (if observed):		_				Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020 - South Ripley	City/Cou	nty: Chautauqua	a County	Sampling Date:	07/23/2020
Applicant/Owner:		nnectGen LLC		State: New York		063-1U
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		n of Ripley	
Landform (hillslope, terrace, etc			ave, convex, none):	Convex		%): 3-8
Subregion (LRR or MLRA):	I RR R MI RA 139		20678174 Long:			·
Soil Map Unit Name:		silt loam, 35-50 percent slo		NWI classificatio		14712 00
Are climatic / hydrologic condition			•	o, explain in Remarks		
, ,	ons on the site typical for the, or Hydrology	· · · · · · · · · · · · · · · · · · ·		circumstances" preser	•	No
	, or Hydrology			plain any answers in l		110
· · · · · · · · · · · · · · · · · · ·				•	·	
SUMMARY OF FINDING	5 - Attach site map s	nowing sampling p	oint locations, transe	ects, important i	eatures, etc.	
Hydrophytic Vegetation Prese	ent? Yes		Is the Sampled Area			
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX	
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland S	ite ID:		
Remarks: (Explain alternative	nrocoduros horo or in a so	parata rapart \				
Remarks. (Explain alternative	e procedures riere or in a se	Darate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum		at apply)		Secondary Indica	tors (minimum of tw	o required)
Surface Water (A1)	or one required, encon an a	Water-Stained Leaves (B9)	Surface Soil		
High Water Table (A2)		Aquatic Fauna (B13)	,20)	Drainage Pa		
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim Li		
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)		Water Table (C2)	
Sediment Deposits (B2)	_	Oxidized Rhizospheres		Crayfish Bur		
Drift Deposits (B3)	_	Presence of Reduced I			isible on Aerial Imag	nery (CQ)
Algal Mat or Crust (B4)		Recent Iron Reduction	` '		tressed Plants (D1)	
_ ·	_	-	` ,		` ,	
Iron Deposits (B5)	wright Imagany (P7)	_ Thin Muck Surface (C7)			Position (D2)	
Inundation Visible on Ae	-	Other (Explain in Rema	rks)	Shallow Aqu		
Sparsely Vegetated Cor	icave Surface (B8)				aphic Relief (D4)	
				FAC-Neutral	iest (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X					
Saturation Present?	Yes No X	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)	103 <u>NO X</u>			arology r resent.	100	<u> </u>
(morades supmary minge)						
Describe Recorded Data (stre	eam gauge, monitoring well,	aerial photos, previous in	spections), if available:			
Remarks:						
1						

VEGETATION - Use scientific names of plants.				Sampling Point:063-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	20	Yes	FAC	Species Across All Strata: 4 (B)
3. Fagus grandifolia / American beech	10	No	FACU	
4. Prunus pensylvanica / Pin cherry	10	No	FACU	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	70	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Fagus grandifolia / American beech	15	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 20 x 3 = 60
3.				FACU species 155 x 4 = 620
4.				UPL species 0 x 5 = 0
5.				Column Totals: <u>175</u> (A) <u>680</u> (B)
6.				Prevalence Index = B/A = 3.89
7.				
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Thelypteris noveboracensis / New york fern	65	Yes	FACU	2 - Dominance Test is >50%
2. Maianthemum / Mayflower	15	No	FACU	3 - Prevalence Index ≤3.0¹
Oxalis dillenii / Slender yellow wood-sorrel	10	No	FACU	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
		_		
•		-	-	¹Indicators of hydric soil and wetland hydrology must
7			- -	be present, unless disturbed or problematic.
			- -	
				Definitions of Vegetation Strata
10.	_	_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12	90	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		_ = 10(a) 000	Ci	greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.		-		Woody vines - All woody vines greater than 3.28 ft in
3	-		-	height.
4		- Total Cau		Lludranhutia
		_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report)			•
remarks. (Explain alternative procedures here of in a separate	o report.)			

SOIL Sampling Point: 063-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc2 (inches) Color (moist) Type¹ Texture Remarks 10YR 5/8 100 0-18 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South Ripley	City/County:	Chautauqua County	Sampling Date: 07/23/2020
Applicant/Owner:	ConnectGen LLC	_ · ·	·	York Sampling Point: 063-1W
Investigator(s):	Matt Spadoni & Joe Gallo	Section, Township,		Town of Ripley
• ' '	•	relief (concave, conve		ave Slope (%): 2-5
Subregion (LRR or MLRA):		42.20676237		71461291 Datum: NAD 83
Soil Map Unit Name:				sification: PEM
· · · · · · · · · · · · · · · · · · ·	ions on the site typical for this time of year		lo (If no, explain in F	
, ,	3.	ntly disturbed?	Are "Normal Circumstances	,
	, or Hydrology naturally	•	(If needed, explain any ans)	
	GS - Attach site map showing sa			·
				itant leatures, etc.
Hydrophytic Vegetation Pres			mpled Area	
Hydric Soil Present?	Yes <u>X</u> No			XNo
Wetland Hydrology Present?	Yes X No	If yes, op	tional Wetland Site ID:	Wetland 63
Remarks: (Explain alternative	e procedures here or in a separate report.			
remarks. (Explain alternative	e procedures here or in a separate report.			
HYDROLOGY				
Wetland Hydrology Indicat	ors:			
Primary Indicators (minimum	of one required; check all that apply)		Secondar	y Indicators (minimum of two required)
Surface Water (A1)	X Water-Stair	ned Leaves (B9)	Surfa	ace Soil Cracks (B6)
High Water Table (A2)	Aquatic Fa	una (B13)	 Drair	nage Patterns (B10)
Saturation (A3)	Marl Depos	its (B15)	Moss	s Trim Lines (B16)
Water Marks (B1)	Hydrogen S	Sulfide Odor (C1)	 Dry-S	Season Water Table (C2)
Sediment Deposits (B2)	X Oxidized R	hizospheres on Living F		fish Burrows (C8)
Drift Deposits (B3)		f Reduced Iron (C4)	· · · — ·	ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Reduction in Tilled So		ted or Stressed Plants (D1)
Iron Deposits (B5)		Surface (C7)	· · ·	morphic Position (D2)
Inundation Visible on A		ain in Remarks)		low Aquitard (D3)
Sparsely Vegetated Cor		a		otopographic Relief (D4)
oparcory vogotatou con	Touve Guinace (20)			-Neutral Test (D5)
			<u></u>	
Field Observations:				
Surface Water Present?	Yes NoX Depth (inc	ches):		
Water Table Present?	Yes NoX Depth (inc	ches):		
Saturation Present?	Yes NoX Depth (inc	ches):	Wetland Hydrology Pres	sent? Yes X No
(includes capillary fringe)				
5 " 5				
Describe Recorded Data (str	eam gauge, monitoring well, aerial photos	, previous inspections),	if available:	
Remarks:				
rtomanto.				

VEGETATION - Use scientific names of plants.				Sampling Point:063-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	matrie obt, racw, orrac.
Betula populifolia / Gray birch 2.	15	Yes	FAC	Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6. 7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15) 1	15	_ = Total Cov		Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100
2				FAC species 25 x 3 = 75 FACU species 0 x 4 = 0
34.				UPL species 0 x 5 = 0
4	_			Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87
7. Herb Stratum (Plot size: 5)		= Total Cov	er	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1. Dichanthelium clandestinum / Deer-tongue rosette grass	50	Yes	FACW	X 2 - Dominance Test is >50%
2. Myosotis scorpioides / Forget me not, Water forget-me-not	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting
3. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
4. Carex vulpinoidea / Fox sedge, Brown fox sedge5.6.	10	No No	OBL	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8.				Definitions of Vegetation Strata
9				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.		= Total Cov	er	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	_			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic
				Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

(Inches) Color (moist) % Color (moist) % Type' Loc' Texture Remarks (P. 1) Co. B. 10YR 4/1 90 7.5YR 5/8 10 C P.L.M. Sandy loss Stream sediments in the will be sediment from t	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Malydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S9) (LRR R,MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Redox Depressions (F8) Depleted Below Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (LRR R, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MRR A144) X Sandy Redox (S5) Stripped Matrix (S4) Mesic Spootic (TA6) (MLRA 144B) 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	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matydric Soil Indicators: Histosol (A1)	tland
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Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Pedox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) X Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Soils (F19) (Mesic Spodic (TA6) (MLRA 144A) X Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators 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	
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Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (Mack Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 1444) X Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Pindicators 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	DD K I \
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Dark Surface (S7) (LRR R, MLRA 149B) Cher (Explain in Remarks) Charlicators 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	
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Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X	
Type:	
Depth (inches): Hydric Soil Present? Yes X	
Remarks:	No

Project/Site:	19020 - South Ripley	City/	County:	Chautauqua (County	Sampling Date:	07/23/2020
Applicant/Owner:		ConnectGen LLC	,	•	ate: New York		063-2W
• • • • • • • • • • • • • • • • • • • •	Matt Spadoni & Joe Ga		ion, Township, Ra			vn of Ripley	
Landform (hillslope, terrace, etc			oncave, convex,		Concave		(%): 2-5
Subregion (LRR or MLRA):			42.20563665	Long:			` '——
Soil Map Unit Name:					NWI classification		PFO
Are climatic / hydrologic condition				(If no	explain in Remark	-	10
, ,	ons on the site typical for, or Hydrology	•		``	cumstances" prese	,	(No
	, or Hydrology				ain any answers in		<u> </u>
					-	•	
SUMMARY OF FINDING	5 - Allach Sile map		g point locati	ons, transec	is, important	leatures, etc.	
Hydrophytic Vegetation Prese		X No	Is the Sam	pled Area			
Hydric Soil Present?		X No	within a W	etland?	Yes X	No	_
Wetland Hydrology Present?	Yes	X No	If yes, option	onal Wetland Site	e ID:	Wetland 63	
Domarka: (Evalain alternative	nragaduras bara ar in a	concrete report \					
Remarks: (Explain alternative	e procedures nere or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indicate	ors:						
Primary Indicators (minimum		I that apply)			Secondary Indica	itors (minimum of t	wo required)
Surface Water (A1)		X Water-Stained Leav	/es (B9)			Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B13	` ,		X Drainage Pa		
X Saturation (A3)		Marl Deposits (B15	,		Moss Trim L		
Water Marks (B1)		X Hydrogen Sulfide C				Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizosphe		ots (C3)	Crayfish Bur		
Drift Deposits (B3)		Presence of Reduc	•	010 (00)		isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduct	` ,	(C6)		Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck Surface		(00)	X Geomorphic	•	,
Inundation Visible on Ae	vrial Imagony (P7)	Other (Explain in Re			X Shallow Aqu		
	• • • •	Other (Explain in Ki	emarks)				
Sparsely Vegetated Cor	icave Surface (Bo)				X FAC-Neutral	aphic Relief (D4)	
					A FAC-Neutral	r lest (D3)	
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):	0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)			_		0,		
. , , ,							
Describe Recorded Data (stre	eam gauge, monitoring w	ell, aerial photos, previou	is inspections), if	available:			
Damada							
Remarks:							
1							

Absolute Tree Stratum (Plot size:	Species? Yes Yes Total C	Status FACU FACW	Dominance Test worksheet: Number of Dominant Species 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species 5 (B) Percent of Dominant Species 80.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0 Column Totals: 135 (A) 245 (B)
Tree Stratum (Plot size: 30) %Cover 25 1. Fagus grandifolia / American beech 25 2. Fraxinus pennsylvanica / Green ash 15 3. 4. 5. 6. 7. 40 Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 6. 7. 0 Herb Stratum (Plot size: 5)	Species? Yes Yes Total C	Status FACU FACW	That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
Tree Stratum (Plot size: 30) %Cover 1. Fagus grandifolia / American beech 25 2. Fraxinus pennsylvanica / Green ash 15 3.	Species? Yes Yes Total C	Status FACU FACW	Total Number of Dominant Species Across All Strata:
1. Fagus grandifolia / American beech 25 2. Fraxinus pennsylvanica / Green ash 15 3.	Yes Yes Total C	FACU FACW	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet:
2. Fraxinus pennsylvanica / Green ash 15 3.	Yes = Total C	FACW	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet:
3.	= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
4.	= Total C	over	That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
5.	= Total C	over	That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
5.	= Total C	over	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
6. 7. 40 Sapling/Shrub Stratum (Plot size: 15) 1. 2. 3. 4. 5. 6. 7. 0 Herb Stratum (Plot size: 5)	= Total C		Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
7	= Total C		Total % Cover of: Multiply by: OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
Sapling/Shrub Stratum (Plot size:			OBL species 75 x 1 = 75 FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
1.			FACW species 35 x 2 = 70 FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
2.			FAC species 0 x 3 = 0 FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
2			FACU species 25 x 4 = 100 UPL species 0 x 5 = 0
3			UPL species 0 x 5 = 0
4			
5			Column Totals: 135 (A) 245 (B)
6			(2)
7			Prevalence Index = B/A = 1.81
	T-4-1 O		
Herb Stratum (Plot size: 5	= Total C	over	Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	Yes	OBL	X 2 - Dominance Test is >50%
Boehmeria cylindrica / Smallspike false nettle	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Impatiens capensis / Spotted jewelweed 20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
4.		TAOW	Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
7			
8			Definitions of Vegetation Strata
9			
10			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11			breast height (DBH), regardless of height.
12.			Sapling/shrub - Woody plants less than 3 in. DBH and
95	= Total C	over	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)			Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2			Woody vines - All woody vines greater than 3.28 ft in
3			height.
4			
0	= Total C	over	Hydrophytic
			Vegetation
			Present? Yes X No

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

(Jackson Selectors) Redox Features

(Jackson Selectors) Redox Features

(Jackson Selectors) Redox Features

Depth	Matrix	о шории иос	Redo	x Features				-,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Rema	rks
0-8	10YR 2/1	100					Mucky loam			
							·			
¹Type: C=Con	centration, D=Depletion	, RM=Reduc	ed Matrix, MS=Mas	ked Sand Gra	ains.		²Locat	ion: PL=P	ore Lining,	M=Matrix.
Hydric Soil Ir	ndicators:						Indicators	for Probl	ematic Hyd	Iric Soils ³ ·
X Histosol			Polyvalue Belov	v Surface (S8	3) (I RR R I	MI RA 149			-	L, MLRA 149B)
	ipedon (A2)	_	Thin Dark Surfa				-	-		(LRR K, L, R)
Black His	. ,	_	Loamy Mucky N			,				63) (LRR K, L, R)
	n Sulfide (A4)	_	Loamy Gleyed		(=:::::, =)				7) (LRR K	
	Layers (A5)	_	Depleted Matrix							68) (LRR K, L)
	Below Dark Surface (A	.11)	Redox Dark Su						ce (S9) (Li	
	rk Surface (A12)	· -	Depleted Dark							12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)	_	Redox Depress					_		F19) (MLRA 149B)
	leyed Matrix (S4)	_								A 144A, 145, 149B)
Sandy Re	edox (S5)						Red P	arent Mat	erial (F21)	
Stripped	Matrix (S6)						Very S	Shallow Da	ark Surface	(TF12)
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain ir	n Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland h	nydrology must be p	resent, unles	s disturbed	or problen	natic.			
Restrictive La	ayer (if observed):									
Type:	Bedrock									
Depth (inc		3					Hydric Soil Pr	esent?	Yes	X No
Remarks:										
E	Bedrock at 8									

Project/Site:	19020 - South Ripley	City/Cou	unty: Chauta	auqua County	Sampling Date:	07/23/2020
Applicant/Owner:	· ·	nnectGen LLC	•	State: New York	_	064-1U
Investigator(s):	Matt Spadoni, Joe Gallo	Section.	Township, Range:	_	wn of Ripley	
Landform (hillslope, terrace, etc			cave, convex, none):			(%): 0-5
Subregion (LRR or MLRA):				ong: -79.710865		· /
Soil Map Unit Name:		Busti silt loam	=-	NWI classification		
Are climatic / hydrologic conditi			X No	(If no, explain in Remark		
, ,	, or Hydrology			mal Circumstances" prese	,	No
	, or Hydrology			d, explain any answers in		
SUMMARY OF FINDING				•	•	
	-				icatures, etc.	
Hydrophytic Vegetation Pres			Is the Sampled Are			
Hydric Soil Present?	Yes		within a Wetland?	· · · · · · · · · · · · · · · · · · ·	NoX	
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetla	and Site ID:		
Remarks: (Explain alternative	e procedures here or in a se	eparate report)	•			
(= p = = = = = = = = = = = = = = = = = =	, , , , , , , , , , , , , , , , , , ,	, p. a. a. a. a. p. a. a. y				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum	of one required; check all t	hat apply)		Secondary Indica	ators (minimum of tv	vo required)
Surface Water (A1)	_	Water-Stained Leaves	(B9)	Surface Soi	l Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)	_	_ Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizospheres	s on Living Roots (C3)	Crayfish Bu		
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation \	/isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1))
Iron Deposits (B5)		Thin Muck Surface (C7	')	Geomorphic	Position (D2)	
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor				Microtopogr	aphic Relief (D4)	
				Microtopogr FAC-Neutra		
Sparsely Vegetated Cor						
Sparsely Vegetated Cor	ncave Surface (B8)					
Sparsely Vegetated Cor Field Observations: Surface Water Present?	Yes NoX	Depth (inches):				
Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Depth (inches):		FAC-Neutra	I Test (D5)	
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes NoX	Depth (inches):	Wetlar			NoX
Field Observations: Surface Water Present? Water Table Present?	Yes NoX Yes NoX	Depth (inches):	Wetlar	FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes NoX Yes NoX Yes NoX	Depth (inches): Depth (inches):		FAC-Neutra	I Test (D5)	No X

/EGETATION - Use scientific names of plants.				Sampling Point: 064-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	85	Yes	FACU	Total Number of Dominant
Robinia pseudoacacia / Black locust	15	No	FACU	Species Across All Strata: 3 (B)
3				
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Prevalence Index worksheet:
7	100	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	100	_ 10101 001	OI .	OBL species 0 $x = 0$
1. Acer saccharum / Sugar maple	10	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.			- (FACU species113 x 4 =452
4.				UPL species 0 x 5 = 0
5.				Column Totals: <u>113</u> (A) <u>452</u> (B)
6.				Prevalence Index = B/A = 4.0
7.				Hydrophytic Vegetation Indicators:
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Acer saccharum / Sugar maple	3		FACU	3 - Prevalence Index ≤3.0¹
2.				4 - Morphological Adaptations (Provide supporting
3.		_		Problematic Hydrophytic Vegetation¹ (Explain)
4				
56.				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
0				D. 5. 10
0				Definitions of Vegetation Strata
10.				Tree Mondy plants 2 in (7.6 cm) or more in diameter at
11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	3	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)		_		Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation No.
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ate report.)			
	,			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-8	10YR 3/3	100					Loam		
	-								_
						 .			
	-								
¹Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=Po	ore Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric Soils³:
Histosol			Polyvalue Belov	v Surface (S8	R) (I RR R I	MI RΔ 149F) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa					-	
						1490)			dox (A16) (LRR K, L, R)
Black His			Loamy Mucky N		LKK K, L)				t or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed						7) (LRR K, L)
	Layers (A5)		Depleted Matrix						Surface (S8) (LRR K, L)
	l Below Dark Surface (A11)	Redox Dark Su	, ,					e (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-M	anganese	Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Floodp	olain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA	A6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red P	arent Mate	erial (F21)
Stripped	Matrix (S6)						Very S	hallow Da	rk Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other	(Explain in	Remarks)
	, , , , ,	•					_	` .	•
3Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent, unles	s disturbed	or problem	atic.		
						· .			
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Pr	esent?	Yes No X
			<u> </u>						
Remarks:									
F	Root refusal at 8"								

Project/Site:	19020 - South Ripley		City/County:	Chautaugua	County	Sampling Date:	07/23/2020
Applicant/Owner: ConnectGen LLC State: New York Sampling Point: 064- Investigator(s): Matt Spadoni & Joe Gallo Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc): Bowl-shaped depression, hillsi Local relief (concave, convex, none): Concave Slope (%): Subregion (LRR or MLRA): LRR R MLRA 139 Lat: 42.20735388 Long: -79.7106838 Datum: NA Soil Map Unit Name: Busti silt loam, 3-8 percent slopes NWI classification: PFO Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)	064-1W						
Investigator(s):	Matt Spadoni & Joe Ga	allo	Section, Townsh	ip, Range:	Tov	wn of Ripley	
Landform (hillslope, terrace,	•		elief (concave, cor	nvex, none):	Concave	Slope	(%): 2-5
Subregion (LRR or MLRA):	LRR R MLRA 139	9 Lat:	42.2073538	B8 Long:	-79.710683	8 Datun	n: NAD 83
Soil Map Unit Name:	Bus	ti silt loam, 3-8 perc	ent slopes		NWI classification	on: I	PFO
Are climatic / hydrologic con-	ditions on the site typical for	this time of year?	Yes X	No (If no	_ , explain in Remark	s.)	
Are Vegetation , S	oil , or Hydrology	significantl	y disturbed?	Are "Normal Cir	rcumstances" prese	ent? Yes	K No
· · · · · · · · · · · · · · · · · · ·			roblematic?	(If needed, expl	lain any answers in	Remarks.)	
SUMMARY OF FINDIN	IGS - Attach site ma	p showing sam	pling point lo	cations, transe	cts, important	features, etc.	
Hydrophytic Vegetation Pr	esent? Yes	X No	Is the	Sampled Area	-		
, , ,				•	Yes X	No	
'			_				_
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_ , , , ,		_		_
Remarks: (Explain alterna	tive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology India	ators:						
, ,		ill that apply)			Secondary Indica	ators (minimum of t	wo required)
			d Leaves (B9)				
\ ` '	2)		` '			. ,	
1 — ` `	,						
							
_ ` '	32)			na Roots (C3)			
Drift Deposits (B3)	· - /	X Presence of F		-		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	4)		Reduction in Tilled			Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Su		(,	X Geomorphic	=	,
Inundation Visible on	Aerial Imagery (B7)		n in Remarks)		Shallow Aqu		
	Concave Surface (B8)	_ ` ` '	,			aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations: Surface Water Present?	Voe Ne	V Danth (in ah	\-				
Water Table Present?	Yes No _ Yes No		· ———	-			
Saturation Present?		' ' '	· —	Wetland Hye	dralagy Brasant?	Voc. V	No
(includes capillary fringe)	Yes No	A Depth (inch	es)	vveilaliu nyt	drology Present?	Yes X	No
(includes capillary inlige)							
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, p	revious inspection	ns), if available:			
Remarks:							

/EGETATION - Use scientific names of plants.				Sampling Point: 064-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Fraxinus pennsylvanica / Green ash	45	Yes	FACW	Total Number of Dominant
2.				Species Across All Strata: 4 (B)
3.				(=,
				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, or FAC: 75.0 (A/B)
				That Ale OBE, I AOW, OF I AO.
				Prevalence Index worksheet:
7	45	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	45	_ = 10tal C0V	Ci	OBL species 40 x 1 = 40
Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle	10	Vee	FACIL	FACW species 95 x 2 = 190
		Yes	FACU	FAC species 10 x 3 = 30
2.				FACU species 10 x 4 = 40
3	-			UPL species 0 x 5 = 0
4				
5				\
6				Prevalence Index = B/A = 1.94
7				Hydrophytic Vegetation Indicators:
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Laportea canadensis / Canadian wood-nettle	50	Yes	FACW	
2. Myosotis scorpioides / Forget me not, Water forget-me-not	40	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Solidago rugosa / Wrinkle-leaf goldenrod	10	No	FAC	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.		-		
6.	-, .			¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
0				D. 5. 111
0				Definitions of Vegetation Strata
10.	-		- 	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.		T-4-1 O		Sapling/shrub - Woody plants less than 3 in. DBH and
W 1 1 7 01 1 (B) 1 1	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Pomorko (Evalois alternative procedures have as in a separate				
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: ____064-1W

Depth	ription: (Describe to th Matrix			c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 3/1	85	10YR 6/8	15	С	PL,M	Clay			
				_						
							_			
	-									
	·									
	·							-		
Type: C=Coi	ncentration, D=Depletion	n. RM=Red	uced Matrix. MS=Masl	ed Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=Mat	trix.
ydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric So	ils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S8) (LRR R	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L, MLR	RA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	A 149B)	Coas	t Prairie Re	edox (A16) (LRR	K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	1ineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LF	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	V Surface (S8) (LF	RR K, L)
 Depleted	d Below Dark Surface (A	\11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR K, I	L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-I	Manganese	Masses (F12) (I	LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					-	plain Soils (F19) (I	
	Gleyed Matrix (S4)			,					A6) (MLRA 144A	
	Redox (S5)							Parent Mat		, -, - ,
	Matrix (S6)								ark Surface (TF12)	١
	rface (S7) (LRR R, ML	RA 149R)							n Remarks)	,
Dark ou	nace (or) (Linera, IIIL	1400)						i (Explaiii ii	Tremano,	
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Postriotivo I	aver (if abouted):									
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
temarks:										
omarno.										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqua	a County	Sampling Date:	07/24/2020
Applicant/Owner:	· · · · · · · · · · · · · · · · · · ·	nnectGen LLC		State: New York		065-1U
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		n of Ripley	
Landform (hillslope, terrace, etc	•		eave, convex, none):	Convex		(%): 0-3
Subregion (LRR or MLRA):		Lat: 42				· /
Soil Map Unit Name:		ilt loam, 0-3 percent slopes		NWI classificatio		
Are climatic / hydrologic conditi				o, explain in Remarks	-	
, ,	or Hydrology			Circumstances" prese	•	No
	, or Hydrology			plain any answers in		
SUMMARY OF FINDING				•	•	
	-			scis, important i	eatures, etc.	
Hydrophytic Vegetation Pres			Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?		NoX	
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetland S	Site ID:		
Remarks: (Explain alternative	e procedures here or in a se	narate report)				
rtomano: (Explain altomativ	s procedures here or in a se	parato roporti,				
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
Primary Indicators (minimum	of one required; check all the	nat apply)		Secondary Indica	tors (minimum of tw	o required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2))	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Presence of Reduced I	ron (C4)	Saturation V	isible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7)	Geomorphic	Position (D2)	
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu		
Sparsely Vegetated Cor	ncave Surface (B8)	- · · ·	·	Microtopogra	aphic Relief (D4)	
				FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes No X	_ ' '				
Water Table Present?		Depth (inches):				
Saturation Present?	Yes No X	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)						
Describe Recorded Data (str		aerial photos, previous ir	spections) if available:			
Describe Necorded Data (Sti	nam gauge monitoring well					
	eam gauge, monitoring well	, donai priotoc, providuo ii	-,,			
	ream gauge, monitoring well					
Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well	, 40.00 p. 0.000	.,			
Remarks:	eam gauge, monitoring well	, 40.10. p. 0.100 .				
Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well					
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Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well					
Remarks:	eam gauge, monitoring well					

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	That has obe, thou, of the
Picea abies / Norway spruce	85	Yes	FACU	Total Number of Dominant
, ,				
				Species Across All Strata: (B)
·				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 0.0 (A/B)
				P. J. J. J. Standardson
-				Prevalence Index worksheet:
	85	_ = Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
· · · · · · · · · · · · · · · · · · ·				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 85 x 4 = 340
				UPL species 0 x 5 = 0
				Column Totals: 85 (A) 340 (B)
				Prevalence Index = $B/A = 4.0$
				Flevalence index - D/A
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5				-
				2 - Dominance Test is >50%
-			-	3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
· .				
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				be present, unious distances of present in
				Definitions of Vegetation Strata
				200000000000000000000000000000000000000
D				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1.		_	-	breast height (DBH), regardless of height.
າ		-		
2.		- Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
· · · · · · · · · · · · · · · · · · ·		_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
· <u></u>				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
	- -			height.
-	0	= Total Cov	/or	Hydrophytic
		_ = 1010	51	Vegetation
				Present? Yes No X

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	5YR 3/1	100					Loam			
	0111071									
		· -								
		. .								
		· <u></u>								
	-									
		· ——								
		. .								
·										
		 -						-		
		· ——								
¹Type: C=Con	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, M=Matrix.	
Hydria Cail I	ndicatore:						Indicate	for Droble	matic Hydria Caila3:	
Hydric Soil Ir			5 · · -		 -				ematic Hydric Soils³:	ļ
Histosol	(A1)		Polyvalue Belov	w Surface (S	3) (LRR R ,I	MLRA 149E	3) 2 cm	Muck (A10)) (LRR K, L, MLRA 149B)	
Histic Ep	ipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	dox (A16) (LRR K, L, R)	
Black His	stic (A3)	•	Loamy Mucky N			-			t or Peat (S3) (LRR K, L, R)	
		•								
	n Sulfide (A4)		Loamy Gleyed						7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)					Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin	Dark Surfac	ce (S9) (LRR K, L)	
	rk Surface (A12)		Depleted Dark	Surface (F7)					Masses (F12) (LRR K, L, R	5)
								-		
	ucky Mineral (S1)	•	Redox Depress	ions (Fo)					plain Soils (F19) (MLRA 149B	
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA	A6) (MLRA 144A, 145, 149E	3)
Sandy Re	edox (S5)						Red I	Parent Mate	erial (F21)	
Stripped	Matrix (S6)						Verv	Shallow Da	rk Surface (TF12)	
		DA 140B)								
Dark Sur	face (S7) (LRR R, ML	-KA 149D)					Other	(Explain in	remarks)	
					e dieturhad	or problems	atio			
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	3 distuibed	or problems	auc.			
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	- disturbed	or problem	auc.			
		and wetland	hydrology must be p	resent, unles	3 distuibed	or problem	auc.			
Restrictive La	hydrophytic vegetation ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem	auc.			
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed	or problem			V N- V	
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed	or problem	Hydric Soil P	resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem		resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem		resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem		resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem		resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed	or problem		resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed			resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distance			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No _X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No _X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 distarbed			resent?	Yes NoX	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	3 disturbed			resent?	Yes No X	

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/24/2020
Applicant/Owner:		ConnectGen LLC	_	Si	tate: New York	Sampling Point:	065-1W
Investigator(s):	Matt Spadoni, Joe Gal	lo	Section, Townsh	nip, Range:	To	wn of Ripley	
Landform (hillslope, terrace,			elief (concave, co	nvex, none):	Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):					-79.716765	95 Datun	n: NAD 83
Soil Map Unit Name:		Busti silt loam 0-	-3%		NWI classificati	on: F	PEM
Are climatic / hydrologic cond	ditions on the site typical for	this time of year?	Yes X	No (If no	 , explain in Remarl	ks.)	
Are Vegetation, So	oil , or Hydrology	significantl	y disturbed?	Are "Normal Cir	rcumstances" pres	ent? Yes	K No
	oil, or Hydrology				lain any answers ir	Remarks.)	
SUMMARY OF FINDIN				ocations, transe	cts, important	features, etc.	
Hydrophytic Vegetation Pr		X No		Sampled Area	•	•	
Hydric Soil Present?		X No		n a Wetland?	Yes X	No	
Wetland Hydrology Preser		X No		, optional Wetland Sit		Wetland 65	_
Remarks: (Explain alterna	tive procedures here or in a	separate report.)					
HYDROLOGY							
	eatore:						
Wetland Hydrology India	:ators: um of one required; check a	II that apply)			Secondary India	ators (minimum of t	wo required)
X Surface Water (A1)	in or one required, check a	X Water-Staine	d Loayos (PO)			il Cracks (B6)	wo required)
X High Water Table (A2	'	Aquatic Faun	,		X Drainage P		
X Saturation (A3)	,	Marl Deposits				Lines (B16)	
Water Marks (B1)			lfide Odor (C1)			n Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhiz		na Roots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)	· - /		Reduced Iron (C4	-		Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	4)		Reduction in Tilled	•		Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Su		,		c Position (D2)	,
Inundation Visible on	Aerial Imagery (B7)		n in Remarks)		Shallow Aq		
	Concave Surface (B8)	_ ` ` '	ŕ			raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 0-2				
Water Table Present?	Yes X No	Depth (inch	· —				
Saturation Present?	Yes X No	Depth (inch		Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)	<u> </u>				0.09, 1.000		
(
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, p	revious inspectio	ns), if available:			
Remarks:							

ee Stratum (Plot size:30)			_	Danisana Tarkanakakat
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
	%Cover	Species?	Status	
	7000.2.	_ орес	<u> </u>	Total Number of Dominant
			- ——	Species Across All Strata: 1 (B)
			-	Openes Anioss Anioticia.
				Percent of Dominant Species
				•
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	0	_ = Total Cov	er	OBL species 15 x 1 = 15
pling/Shrub Stratum (Plot size:)				
				FACW species 65 x 2 = 130
				FACUL procise 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals:80 (A)145 (B)
				Prevalence Index = B/A = 1.81
		-		
		= Total Cove	or	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		10(a) 00	31	X 1 - Rapid Test for Hydrophytic Vegetation
 -	60	Voc	EA 010/	X 2 - Dominance Test is >50%
Onoclea sensibilis / Sensitive fern	60	Yes No.	FACW	X 3 - Prevalence Index ≤3.0¹
Leersia oryzoides / Rice cutgrass	10	No	OBL	4 - Morphological Adaptations (Provide supporting
Equisetum palustre / Marsh horsetail	5	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Carex lurida / Shallow sedge	5	No	OBL	
		- ———		¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
				Deminitions of vegetation of ata
				The state of the s
	-	_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
·				
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
(Dist ====================================	OU	_ = 10tai 00v	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	= Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 065-1W

	Matrix		Redox	k Features			e of indicators	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-3	10YR 3/2	95	10YR 6/8	5	C	PL	Peaty			
3-18	10YR 5/1	90	10 YR 6/8	10	C	PL	Clay			
Type: C=Cor	ncentration, D=Depletion	, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		²Locati	on: PL=Por	e Lining, M=Matr	X.
lydric Soil I	ndicators:						Indicators	for Problen	natic Hydric Soil	s³:
Histosol			Polyvalue Belov	v Surface (S	3) (LRR R,	MLRA 149E			(LRR K, L, MLR	
	pipedon (A2)		Thin Dark Surfa						ox (A16) (LRR K	-
Black Hi			Loamy Mucky M			,			or Peat (S3) (LR	
	n Sulfide (A4)		Loamy Gleyed I						(LRR K, L)	····, –, ··· ,
	Layers (A5)		X Depleted Matrix						Surface (S8) (LR	R K. L)
	d Below Dark Surface (A	11)	Redox Dark Sur						(S9) (LRR K, L	
	ark Surface (A12)	,	Depleted Dark S						Masses (F12) (L	
	lucky Mineral (S1)		Redox Depress					-	ain Soils (F19) (N	
	sleyed Matrix (S4)		Redox Bepress	10113 (1 0)				-	6) (MLRA 144A,	· -
	edox (S5)							arent Materi		143, 1430)
	Matrix (S6)								Surface (TF12)	
	rface (S7) (LRR R, MLF	A 140B)						Explain in F		
Daik Su	nace (37) (LIXIX IX, MILI	(A 143D)					Other	Lxpiaiii iii i	(Ciliaiks)	
Indicators of	hydrophytic vegetation a	ind wetland	I hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Dootriotive I										
	ayer (if observed):							40	Van V	No
Туре:										INO
							Hydric Soil Pro	esent?	Yes X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pro	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pre	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pro	esent?	res A	
Type: Depth (in							Hydric Soli Pr	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res A	
Туре:							Hydric Soli Pre	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res A	

Project/Site:	19020 - South Ripley	C	City/County:	Chautauqua (County	Sampling Date:	07/24/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	•	ate: New York		065-2W
Investigator(s):	Matt Spadoni & Joe Gal		Section, Township, R			vn of Ripley	
Landform (hillslope, terrace, etc	•				Concave		(%): 0-3
Subregion (LRR or MLRA):		Lat:		Long:	-79.7167704		`
Soil Map Unit Name:		silt loam, 0-3 percer			NWI classification		PFO
Are climatic / hydrologic condition		· · · · · · · · · · · · · · · · · · ·	· ·	(If no	explain in Remark		
, ,	, or Hydrology	•		`	cumstances" prese	,	X No
Are Vegetation , Soil					ain any answers in		<u> </u>
SUMMARY OF FINDING				•	-	•	
					zis, important	icatures, etc.	
Hydrophytic Vegetation Prese				npled Area			
Hydric Soil Present?		(No	within a W		Yes X	No	_
Wetland Hydrology Present?	Yes>	(No	If yes, opti	onal Wetland Site	e ID:		
Remarks: (Explain alternative	e procedures here or in a	separate report)	•				
	, p. 000 a a	ooparato roporti,					
HYDROLOGY							
Wetland Hydrology Indicate	ors:						
Primary Indicators (minimum	of one required; check all	that apply)			Secondary Indica	ators (minimum of t	wo required)
X Surface Water (A1)		X Water-Stained L	` '		Surface Soil	Cracks (B6)	
X High Water Table (A2)		Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Deposits (I	315)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfic	le Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		X Oxidized Rhizos	spheres on Living Ro	oots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Re	duced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron Rec	duction in Tilled Soils	s (C6)	Stunted or S	Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck Surfa	ace (C7)		Geomorphic	Position (D2)	
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain i	n Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated Cor	cave Surface (B8)				Microtopogr	aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations:	V V N-	Double (in the ca	0.4				
Surface Water Present?	Yes X No	Depth (inches					
Water Table Present?	Yes X No	Depth (inches				., .,	
Saturation Present?	Yes X No	Depth (inches):0	wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (str	eam gauge monitoring we	ell aerial photos pre	vious inspections) if	available.			
December Recorded Bala (car	odin gaago, momoning w	on, donar priotoc, pro	viodo iriopodilorio), ii	avanabio.			
Remarks:							

60 5 3	Species? Yes No No	FACW FACU FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant 5 (B) Percent of Dominant Species 5 (B) Percent of Dominant Species 80.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
6Cover 40 10 10 10 60 5 3	Species? Yes No No Total Cover Yes Yes	FACU FACW FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
6Cover 40 10 10 10 60 5 3	Species? Yes No No Total Cover Yes Yes	FACU FACW FACW	That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant 5 (B) Percent of Dominant Species 5 (B) Percent of Dominant Species 6 80.0 (A/B) Prevalence Index worksheet: Multiply by: 0 OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
6Cover 40 10 10 10 60 5 3	Species? Yes No No Total Cover Yes Yes	FACU FACW FACW	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
40 10 10 60 5 3	Yes No No Total Cover Yes Yes	FACU FACW FACW	Species Across All Strata: 5 (B) Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
10 10 60 5 3	No No Total Cover Yes Yes	FACU FACW	Species Across All Strata: 5 (B) Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: 80.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover Yes Yes	FACW	Percent of Dominant Species 80.0 (A/B) Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover	FACW	Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover	FACW	Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover	FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover	FACW	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
60 5 3	= Total Cover	FACW	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
5 3	Yes Yes	FACW	OBL species 0 x 1 = 0 FACW species 40 x 2 = 80
3	Yes Yes	FACW	FACW species 40 x 2 = 80
3	Yes		
3	Yes		
		FACU	FAC species 40 x 3 = 120
	·		FACU species 13 x 4 = 52
			·
			· — — —
			Column Totals: 93 (A) 252 (B)
			Prevalence Index = B/A = 2.71
8	= Total Cover		Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
20	Voo	EACIA/	X 2 - Dominance Test is >50%
	. ———		X 3 - Prevalence Index ≤3.01
5	Yes	FACW	4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
			Troblematio riyarophiyato vogotation (Explain)
			11 adjectors of budgie soil and watlend budgeless much
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
	- 		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
25	= Total Cover	•	greater than or equal to 3.28 ft (1 m) tall.
	_		Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
	·		
	- 		Woody vines - All woody vines greater than 3.28 ft in
			height.
			
0	= Total Cover	•	Hydrophytic
			Vegetation
			Present? Yes X No
		5 Yes 25 = Total Cover 0 = Total Cover	5 Yes FACW 25 = Total Cover 0 = Total Cover

SOIL Sampling Point: 065-2W

Depth	ription: (Describe to the Matrix	<u> </u>		x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-3	10YR 3/2	95	10YR 6/8	5	С	PL	Mucky peat			
3-18	10YR 5/1	90	10YR 6/8	10	С	PL	Clay			
							-			
							-			
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Locati	on: PL=Pore L	ining, M=Mat	rix.
lydric Soil I	ndicators						Indicators	or Problemat	tic Hydric Sc	ilo3.
-			Dolynyalua Palay	v Curfoso (C	0) // DD D	MI DA 440			-	
Histosol	` '		Polyvalue Belov					luck (A10) (Li		-
	pipedon (A2)		Thin Dark Surfa			(149B)		Prairie Redox		
	istic (A3)		Loamy Mucky N		(LKK K, L)			lucky Peat or		KK K, L, R)
	en Sulfide (A4)		Loamy Gleyed I					urface (S7) (I	· •	
	d Layers (A5)		X Depleted Matrix					lue Below Sur		· •
	d Below Dark Surface (A	A11)	Redox Dark Sui					ark Surface (S		
	ark Surface (A12)		Depleted Dark S					anganese Mas		
	Mucky Mineral (S1)		Redox Depress	ions (F8)				ont Floodplain		
	Gleyed Matrix (S4)							Spodic (TA6)	=	, 145, 1496)
	Redox (S5)							arent Material		
	Matrix (S6)	DA 440D)						hallow Dark S		
Dark Su	rface (S7) (LRR R, ML	-KA 143D)					Other (Explain in Rer	ilaiks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
	_ayer (if observed):									
Type:	ahaa\.						Undeia Cail Des		/aa V	No
Depth (in	icnes):						Hydric Soil Pre	esent? Y	∕es <u>X</u>	No
Remarks:										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqua	a County	Sampling Date:	07/24/2020
Applicant/Owner:		onnectGen LLC		State: New York		066-1U
Investigator(s):	Matt Spadoni & Joe Gallo	Section.	Township, Range:		n of Ripley	
Landform (hillslope, terrace, et	•		ave, convex, none):	Convex		(%): 0-3
Subregion (LRR or MLRA):		Lat: 42				` '———
Soil Map Unit Name:		silt loam, 0-3 percent slope		NWI classification		
Are climatic / hydrologic condit				o, explain in Remarks		
, ,	, or Hydrology			ircumstances" preser	•	No
	, or Hydrology			plain any answers in f		
SUMMARY OF FINDING				•	•	
	-			cts, important i	eatures, etc.	
Hydrophytic Vegetation Pres			Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?		NoX	=
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetland S	ite ID:		
Remarks: (Explain alternativ	e procedures here or in a se	enarate report)				
Tremains. (Explain alternativ	c procedures here or in a se	sparate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	ors:					
Primary Indicators (minimum	n of one required; check all t	hat apply)		Secondary Indica	tors (minimum of tv	vo required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim Li	nes (B16)	
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2	<u> </u>	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Presence of Reduced I			sible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` '		tressed Plants (D1	
Iron Deposits (B5)	_	Thin Muck Surface (C7	` '		Position (D2)	,
Inundation Visible on A	erial Imagery (B7)	Other (Explain in Rema	•	Shallow Aqui		
Sparsely Vegetated Co	-				phic Relief (D4)	
oparodly regulated oc	nouvo curidos (EG)			FAC-Neutral		
Field Observations:						
Surface Water Present?	Yes No _X	Depth (inches):				
Water Table Present?	Yes NoX	Depth (inches):				
Saturation Present?	Yes No _ X	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
Construction and Mr. C. S.	· · · · · · · · · · · · · · · · · · ·	_				
(includes capillary fringe)						
			I			
(includes capillary fringe) Describe Recorded Data (st	eam gauge, monitoring wel	I, aerial photos, previous ir	spections), if available:			
	ream gauge, monitoring wel	I, aerial photos, previous ir	espections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	spections), if available:			
	ream gauge, monitoring wel	I, aerial photos, previous ir	ispections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	ispections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	ispections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	ispections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	ispections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	spections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	spections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	II, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	II, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			
Describe Recorded Data (st	ream gauge, monitoring wel	I, aerial photos, previous ir	aspections), if available:			

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
. Picea abies / Norway spruce	85	Yes	FACU	Total Number of Dominant
· 		-	17.00	Species Across All Strata: 2 (B)
				Opecies Across Air Otrata.
-				Dergent of Deminant Species
				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 0.0 (A/B)
				Prevalence Index worksheet:
·				
	85	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
·				FACW species 0 x 2 = 0
l				FAC species 0 x 3 = 0
J.				FACU species 100 x 4 = 400
l				UPL species 0 x 5 = 0
•				Column Totals: 100 (A) 400 (B)
·				Prevalence Index = B/A = 4.0
·		_ Tot-! O		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
. Thelypteris noveboracensis / New york fern	15	Yes	FACU	3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
l				<u> </u>
l				Problematic Hydrophytic Vegetation¹ (Explain)
i				
).				¹ Indicators of hydric soil and wetland hydrology must
•				be present, unless disturbed or problematic.
,				D. C. W
·				Definitions of Vegetation Strata
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	15	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
·		_		size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
s				height.
				, and the second
		= Total Cov	er	Hydrophytic
			.	Vegetation
				Present? Yes No X
				Tresent: TCS NO _X

SOIL Sampling Point: 066-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 5YR 3/1 100 0-6 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 6

US Army Corps of Engineers

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/24/2020
Applicant/Owner:		ConnectGen LLC		S	tate: New York	Sampling Point:	066-1W
Investigator(s):	Matt Spadoni, Joe Ga	lo	Section, Townsh	ip, Range:	To	wn of Ripley	
Landform (hillslope, terrace,			elief (concave, cor	nvex, none):	Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):					-79.716765	95 Datun	n: NAD 83
Soil Map Unit Name:		Busti silt loam 0-	-3%		NWI classificati	on: F	PEM
Are climatic / hydrologic con-	ditions on the site typical for	this time of year?	Yes X	No (If no	 , explain in Remarl	ks.)	
Are Vegetation, S	oil , or Hydrology	significantl	y disturbed?	Are "Normal Ci	rcumstances" pres	ent? Yes	X No
	oil, or Hydrology				lain any answers ir	Remarks.)	
SUMMARY OF FINDIN	· · · · · · · · · · · · · · · · · · ·			cations, transe	cts, important	features, etc.	
Hydrophytic Vegetation Pr		X No		Sampled Area	•	•	
Hydric Soil Present?		X No		n a Wetland?	Yes X	No	
Wetland Hydrology Preser		X No		, optional Wetland Si		Wetland 65	=
Remarks: (Explain alterna	tive procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indic	:ators: um of one required; check a	Il that apply)			Secondary India	ators (minimum of t	wo required)
X Surface Water (A1)	in or one required, check a	X Water-Staine	d Loayos (PO)			il Cracks (B6)	wo required)
X High Water Table (A2	v)	Aquatic Faun	(,		X Drainage P		
X Saturation (A3)	,	Marl Deposits				Lines (B16)	
Water Marks (B1)			lfide Odor (C1)			n Water Table (C2)	
Sediment Deposits (E	32)	X Oxidized Rhiz		na Roots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)	· - /		Reduced Iron (C4)	-		Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (B	4)		Reduction in Tilled			Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Su		(,		c Position (D2)	,
Inundation Visible on	Aerial Imagery (B7)		n in Remarks)		Shallow Aq		
	Concave Surface (B8)	_ ` ` '	,			raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes X No	Depth (inch	es): 0-2				
Water Table Present?	Yes X No	Depth (inch	, 	_			
Saturation Present?	Yes X No	Depth (inch	,	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)	<u>// //</u>			_			
(
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, p	revious inspection	ns), if available:			
Remarks:							

	,			
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	
<u> </u>		- - 1		Total Number of Dominant
			-	Species Across All Strata: 1 (B)
		-		
			-	Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		=		OBL species 15 x 1 = 15
,				FACW species 65 x 2 = 130
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
			-	UPL species 0 x 5 = 0
				Column Totals: 80 (A) 145 (B)
			-	Prevalence Index = B/A = 1.81
		-		
		= Total Cov		Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		_ 1010	51	X 1 - Rapid Test for Hydrophytic Vegetation
Onoclea sensibilis / Sensitive fern	60	Yes	FACW	X 2 - Dominance Test is >50%
Leersia oryzoides / Rice cutgrass	10	No	OBL	X 3 - Prevalence Index ≤3.0¹
Carex lurida / Shallow sedge	<u>10</u> 5	No No	OBL	4 - Morphological Adaptations (Provide supporting
Equisetum palustre / Marsh horsetail	<u>5</u> 5	No No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
•			FACVV	
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
				breast height (DBH), regardless of height.
2.				Sapling/shrub - Woody plants less than 3 in. DBH and
(0)	80	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
-				height.
-				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation Present? YesX No
				B

SOIL Sampling Point: 066-1W

	Matrix		Redox	k Features			e of indicators	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-3	10YR 3/2	95	10YR 6/8	5	C	PL	Peaty			
3-18	10YR 5/1	90	10 YR 6/8	10	C	PL	Clay			
Type: C=Cor	ncentration, D=Depletion	, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		²Locati	on: PL=Por	e Lining, M=Matr	X.
lydric Soil I	ndicators:						Indicators	for Problen	natic Hydric Soil	s³:
Histosol			Polyvalue Belov	v Surface (S	3) (LRR R,	MLRA 149E			(LRR K, L, MLR	
	pipedon (A2)		Thin Dark Surfa						ox (A16) (LRR K	-
Black Hi			Loamy Mucky M			,			or Peat (S3) (LR	
	n Sulfide (A4)		Loamy Gleyed I						(LRR K, L)	····, –, ··· ,
	Layers (A5)		X Depleted Matrix						Surface (S8) (LR	R K. L)
	d Below Dark Surface (A	11)	Redox Dark Sur						(S9) (LRR K, L	
	ark Surface (A12)	,	Depleted Dark S						Masses (F12) (L	
	lucky Mineral (S1)		Redox Depress					-	ain Soils (F19) (N	
	sleyed Matrix (S4)		Redox Bepress	10113 (1 0)				-	6) (MLRA 144A,	· -
	edox (S5)							arent Materi		143, 1430)
	Matrix (S6)								Surface (TF12)	
	rface (S7) (LRR R, MLF	A 140B)						Explain in F		
Daik Su	nace (37) (LIXIX IX, MILI	(A 143D)					Other	Lxpiaiii iii i	(Ciliaiks)	
Indicators of	hydrophytic vegetation a	ind wetland	I hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Dootriotive I										
	ayer (if observed):							40	Van V	No
Туре:										INO
							Hydric Soil Pro	esent?	Yes X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soil Pro	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soll Pro	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pre	esent?	res X	
Type: Depth (in							Hydric Soli Pr	esent?	res X	
Type: Depth (in							Hydric Soli Pro	esent?	res A	
Type: Depth (in							Hydric Soli Pr	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res A	
Туре:							Hydric Soli Pre	esent?	res A	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res <u>A</u>	
Type: Depth (in							Hydric Soli Pre	esent?	res A	

Project/Site:	19020 - South Ripley	City/Cou	inty: Cha	autauqua County	Sampling Date: 07/24/2020
Applicant/Owner:		nnectGen LLC	·	State: New York	· · · ———
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		vn of Ripley
Landform (hillslope, terrace, etc			ave, convex, none):		
Subregion (LRR or MLRA):	I RR R MI RA 139			Long: -79.7200700	' ' '
Soil Map Unit Name:		ery silt loam, 8-15 percent		NWI classification	
Are climatic / hydrologic condition		, , ,	•	(If no, explain in Remark	
, ,	ons on the site typical for the, or Hydrology			Iormal Circumstances" prese	•
Are Vegetation , Soil		naturally problemation		ded, explain any answers in	
<u> </u>				•	·
SUMMARY OF FINDING	5 - Attach site map s	nowing sampling p	oint locations,	transects, important	reatures, etc.
Hydrophytic Vegetation Prese	ent? Yes		Is the Sampled A	Area	
Hydric Soil Present?	Yes	No X	within a Wetland	!? Yes	NoX
Wetland Hydrology Present?	Yes	NoX	If yes, optional W	etland Site ID:	
Remarks: (Explain alternative	e procedures here or in a se	parate report.)			
(— р-ш-		,,,,,,,,			
HYDROLOGY					
Wetland Hydrology Indicate	ors:				
Primary Indicators (minimum	of one required; check all the	at apply)		Secondary Indica	ators (minimum of two required)
Surface Water (A1)	<u> </u>	Water-Stained Leaves	(B9)	Surface Soi	Cracks (B6)
High Water Table (A2)	<u> </u>	_ Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)	_	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	_	Oxidized Rhizospheres	on Living Roots (C3	3) Crayfish Bu	rrows (C8)
Drift Deposits (B3)	_	Presence of Reduced I	ron (C4)	Saturation \	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	_	Thin Muck Surface (C7)	Geomorphic	Position (D2)
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	uitard (D3)
Sparsely Vegetated Cor	ncave Surface (B8)	_		Microtopogr	aphic Relief (D4)
				FAC-Neutra	l Test (D5)
				· · · · · · · · · · · · · · · · · · ·	
Field Observations:		5 " " ' ' '			
Surface Water Present?	Yes No X	_ ' '			
Water Table Present?	Yes No X	_ · · · <u> </u>			
Saturation Present?	Yes No X	Depth (inches):	Wet	land Hydrology Present?	Yes NoX
(includes capillary fringe)					
Describe Recorded Data (str	eam gauge monitoring well	aerial photos, previous in	spections) if availab	ole.	
Describe Necorded Bala (Silv	cam gaage, monitoring wen,	uchai priotos, previous in	iopeoliono), ii avaliai	oic.	
Remarks:					

VEGETATION - Use scientific names of plants.				Sampling Point: 067-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Tsuga canadensis / Eastern hemlock	25	Yes	FACU	Total Number of Dominant
2. Fagus grandifolia / American beech	20	Yes	FACU	Species Across All Strata: 7 (B)
3. Acer saccharum / Sugar maple	15	Yes	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 14.3 (A/B)
6.				
7.				Prevalence Index worksheet:
	60	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	10	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.				FACU species 95 x 4 = 380
4.				UPL species 0 x 5 = 0
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A = 3.9
7.				Hisdunahastia Vanatatian Indiantaur
	10	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				1 - Rapid Test for Hydrophytic Vegetation
1. Thelypteris noveboracensis / New york fern	15	Yes	FACU	2 - Dominance Test is >50%
Polystichum acrostichoides / Christmas fern	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
Dryopteris intermedia / Evergreen wood fern	10	Yes	FAC	4 - Morphological Adaptations (Provide supporting
4.	_			Problematic Hydrophytic Vegetation¹ (Explain)
5.	_			
6.		_		¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strate
0				Definitions of Vegetation Strata
				To a Manda destante O in 17 C and an array in disposit of
10 11		<u> </u>		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11 12		-	<u> </u>	
· - ·	35	= Total Cov	er	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)			O.	
				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2			<u> </u>	
3		-		Woody vines - All woody vines greater than 3.28 ft in height.
4.	_		- · ·	neight.
T		= Total Cov	er	Hydrophytic
		10(a) 000	Ci	Vegetation
				Present? Yes No X
				100 100 X
Remarks: (Explain alternative procedures here or in a separate	e report.)			
	1 ,			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks

0-4 10YR 3/2 100

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	is .
0-4	10YR 3/2	100	· ·							
		. <u> </u>								
		· ——								
-		· ·								
	-	· ·								
		· 								
-		· ·								
-		· 								
¹Type: C=Con	centration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gr	ains.		²Locatio	on: PL=Pc	ore Lining, M	=Matrix.
Hydric Soil Ir	dicators:						Indicators f	or Proble	matic Hydri	ic Soils³:
Histosol	(A1)		Polyvalue Belov	/ Surface (S	B) (LRR R,	MLRA 149	B) 2 cm M	luck (A10)	(LRR K, L,	MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	(149B)	Coast F	Prairie Red	dox (A16) (I	LRR K, L, R)
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm M	lucky Peat	t or Peat (S3	B) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		Loamy Gleyed N				Dark Si	urface (S7	7) (LRR K, L	L)
	Layers (A5)		Depleted Matrix							(LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sur						e (S9) (LRF	
	rk Surface (A12)		Depleted Dark S							2) (LRR K, L, R)
	ucky Mineral (S1)	•	Redox Depressi	ons (F8)						19) (MLRA 149B)
	leyed Matrix (S4) edox (S5)								erial (F21)	144A, 145, 149B)
	Matrix (S6)								rk Surface (T	Γ F 12)
	face (S7) (LRR R, ML	RA 149B)							Remarks)	1 12)
	idoc (or) (Erricit, inc	1400)						Explain in	r (ciriarito)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	natic.			
			, 0, 1	•		•				
	ayer (if observed):									
Type:								_		
Depth (inc	ches):		<u></u>				Hydric Soil Pre	esent?	Yes	No <u>X</u>
Remarks:										
	Root refusal at 4									

Project/Site:	19020 - South Ripley	City/Co	unty: C	Chautaugua County	Sampling Date: 07/24/2020
Applicant/Owner:	Conr	nectGen LLC	·	State: New York	Sampling Point: 067-1W
Investigator(s):	Matt Spadoni, Joe Gallo	Section	, Township, Range	:: To	own of Ripley
Landform (hillslope, terrace, etc			cave, convex, non		Slope (%): 3-8
Subregion (LRR or MLRA):			2.20480794	Long: -79.71997	
Soil Map Unit Name:		Channery silt loam 8-15%	%	NWI classificat	tion: PEM
Are climatic / hydrologic condition	ons on the site typical for this	time of year? Yes	X No	(If no, explain in Rema	·ks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbe	ed? Are	"Normal Circumstances" pres	sent? Yes X No
	, or Hydrology			eeded, explain any answers i	· <u> </u>
SUMMARY OF FINDING				s, transects, important	features, etc.
Hydrophytic Vegetation Prese		No	Is the Sample		
Hydric Soil Present?	Yes X	No	within a Wetla		C No
Wetland Hydrology Present?		No No		Wetland Site ID:	Wetland 67
Remarks: (Explain alternative	e procedures here or in a sep	arate report.)	l	<u> </u>	
HYDROLOGY					
Wetland Hydrology Indicate	ors:				
, ,,	of one required; check all that	at apply)		Secondary Indi	cators (minimum of two required)
Surface Water (A1)	· · ·	Water-Stained Leaves	(B9)		pil Cracks (B6)
High Water Table (A2)		Aquatic Fauna (B13)		X Drainage F	Patterns (B10)
X Saturation (A3)		Marl Deposits (B15)			Lines (B16)
Water Marks (B1)		Hydrogen Sulfide Odo	r (C1)	Dry-Seaso	n Water Table (C2)
Sediment Deposits (B2)	<u>X</u>	Oxidized Rhizosphere	s on Living Roots (urrows (C8)
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	in Tilled Soils (C6	Stunted or	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C	7)	X Geomorph	ic Position (D2)
Inundation Visible on Ae	- · · · · -	Other (Explain in Rem	arks)		quitard (D3)
Sparsely Vegetated Cor	ıcave Surface (B8)			 · · ·	graphic Relief (D4)
				X FAC-Neutr	al Test (D5)
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes X No	Depth (inches):	8		
Saturation Present?	Yes X No	Depth (inches):	6 W	etland Hydrology Present?	Yes X No
(includes capillary fringe)					
Describe Described Data (etr.	oom gauge, monitoring well .	acrial photos, provious i	nanactions) if avai	ilabla	
Describe Recorded Data (str	eam gauge, monitoring well, a	aeriai priotos, previous i	nspections), ii avai	liable:	
Remarks:					

/EGETATION - Use scientific names of plants.				Sampling Point:067-1W
Troe Stratum (Plot cize: 20	Absolute %Cover	Dominant Species?	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
<u>Tree Stratum</u> (Plot size:30) 1 2			Status	Total Number of Dominant Species Across All Strata: 2 (B)
3	-	_		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6		= Total Cov	 /er	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15) 1. Fraxinus pennsylvanica / Green ash 2.	5	Yes	FACW	OBL species 60 x 1 = 60 FACW species 25 x 2 = 50 FAC species 20 x 3 = 60
3	-			FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 105 (A) 170 (B) Prevalence Index = B/A = 1.62
6. 7. Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Myosotis scorpioides / Forget me not, Water forget-me-not Dryopteris intermedia / Evergreen wood fern	60	Yes No	OBL FAC	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed Onoclea sensibilis / Sensitive fern	10	No No	FACW	4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
Solidago rugosa / Wrinkle-leaf goldenrod .	5	No	FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9.	_			Definitions of Vegetation Strata
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30)		= Total Cov	 ⁄er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
3. 4.	-	- - 		height.
	0	= Total Cov	- er	Hydrophytic Vegetation Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 067-1W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10 Y 2.5/1	80	10YR 4/6	20	С	PL,M	Clay			
				_						
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=M	latrix.
lydric Soil I	ndicatore:						Indicators	for Probl	ematic Hydric S	Poile3:
-			Dobarduo Bolov	v Curfoco (CC) (I DD D	MI DA 140E			•	
Histosol			Polyvalue Belov					•) (LRR K, L, ML	•
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRI	
	stic (A3)		Loamy Mucky M		LKK K, L)				at or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					•	(S7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						v Surface (S8) (· •
	d Below Dark Surface (A	A11)	X Redox Dark Sur						ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)							Parent Mat		
	Matrix (S6)								ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and watland	l hydrology must be n	rocent unles	e dieturbee	l or problem	otio			
Indicators of		and welland		resent, unies	s disturbed	TOI PIODIEITI	alio.			
Restrictive L	ayer (if observed):									
Type:	Rock									
Depth (in	ches):	8	<u></u>				Hydric Soil P	resent?	Yes X	No
Remarks:						I				
	Rock refusal at 8									

Project/Site:	19020	- South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/24/2020
Applicant/Owner:		· · ·	nectGen LLC			•	ate: New York		068-1U
Investigator(s):	Matt Sr	padoni & Joe Gallo		Section.	Township, Ran			wn of Ripley	
Landform (hillslope, terrac			Local r	•	ave, convex, n		Concave	Slope	(%): 5-11
Subregion (LRR or MLRA		RR R MLRA 139	Lat:	-	20478451	Long:	-79.720070		` '
Soil Map Unit Name:	, <u> </u>						NWI classification		
Are climatic / hydrologic c						(If no,	explain in Remark		
Are Vegetation			•	ly disturbed			cumstances" prese	•	X No
		, or Hydrology		•			ain any answers in		
SUMMARY OF FINE						-	-	·	
Hydrophytic Vegetation							rto, important	10414100, 0101	
Hydric Soil Present?	Present?	Yes Yes	NoX_ NoX	_	Is the Samp		Voc	No. V	
Wetland Hydrology Pres	cont?	Yes	NoX_	_		ial Wetland Site		NoX	<u> </u>
Welland Hydrology Fre	Sent?		NU A	_	ii yes, optioi	iai welianu Sil	= ID		
Remarks: (Explain alter	native procedu	ures here or in a sep	arate report.)						
HYDROLOGY									
	dia atawa .								
Wetland Hydrology In		aguired: abook all th	ot apply)				Cocondon/India	atora (minimum of t	wo required)
Primary Indicators (min		equired, check all the	Water-Staine	d Looyoo /l	DO)			ators (minimum of t	wo required)
Surface Water (A1	•	_	•	`	вэ)			l Cracks (B6)	
High Water Table ((A2)	_	Aquatic Faur	,				atterns (B10)	
Saturation (A3)		_	Marl Deposits		(04)		Moss Trim I		
Water Marks (B1)	- (DO)		Hydrogen Su		` '	t- (OO)		Water Table (C2)	
Sediment Deposits			-		on Living Roof	ts (C3)	Crayfish Bu		(00)
Drift Deposits (B3)		_	Presence of			00)		/isible on Aerial Ima	
Algal Mat or Crust		_	-		n Tilled Soils (C6)		Stressed Plants (D1	1)
Iron Deposits (B5)			Thin Muck Si	, ,				Position (D2)	
Inundation Visible	-		Other (Explain	ın ın Remar	rks)		Shallow Aq		
Sparsely Vegetate	d Concave Sui	тасе (В8)						raphic Relief (D4)	
							FAC-Neutra	ii lest (D5)	
Field Observations:									
Surface Water Present?	? Yes	s NoX	Depth (inch	ies):					
Water Table Present?	Yes	s No X	Depth (inch	ies):					
Saturation Present?	Yes	s No X	Depth (inch	ies):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fringe	e)		_						
Describe Recorded Dat	ta (stream gau	ge, monitoring well,	aerial photos, p	previous ins	spections), if a	vailable:			
Remarks:									

3. Dryopteris intermedia / Evergreen wood fern 4.					Sampling Point:068-1U
Absolute Dominant Indicator Species? Statum (Plot size: 30 %Cover Species? Statum Species Statum (Plot size: 30 %Cover Species? Statum Species Statum Sugar maple 15 Yes FACU FACU Percent of Dominant Species Across All Strata: 7 Total Number of Dominant Total Number					Dominance Test worksheet:
Absolute Dominant Indicator Species? Statum (Plot size: 30 %Cover Species? Statum Species Statum (Plot size: 30 %Cover Species? Statum Species Statum Sugar maple 15 Yes FACU FACU Percent of Dominant Species Across All Strata: 7 Total Number of Dominant Total Number					
Test Stratum (Plot size: 30 %Cover Species? Status 1. Prunus serolina / Paraus /		Absolute	Dominant	Indicator	·
Prunus serotina var. serotina Black cherry 25					matric obe, frow, of the
2. Fagus grandifolia / American beech 3. Acer saccharum / Sugar maple 4. 5. 6. 7. 60 = Total Cover Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech 2. Sapling/Shrub Stratum (Plot size: 15) 3. Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech 2. Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech 3. Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech 4. Sapling/Shrub Stratum (Plot size: 15) 1. Thelypteris noveboracensis / New york ferm 15 Yes FACU Species 0 x 5 = 0 Column Totals: 105 (A) 4110 Prevalence Index = BtA = 3.9 Prevalence Index ≤ 3.0 Species in the stratum (Plot size: 5) 1. Thelypteris noveboracensis / New york ferm 15 Yes FACU Species 10 x 3 = 30 Species in the stratum (Plot size: 5) 1. Thelypteris noveboracensis / New york ferm 10 Yes FACU Species 10 x 3 = 30 Species 10 x 3					Total Number of Dominant
3. Acer saccharum / Sugar maple					
Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3					Species Across Air Strata. (B)
That Are OBL, FACW, or FAC: 14.3		15	res	FACU	Description of Description
Prevalence Index worksheet: Total % Cover of: Multiply by:			- ·-		·
Prevalence Indox worksheet: Total Sapling/Shrub Stratum (Plot size: 15)					That Are OBL, FACW, or FAC: 14.3 (A/B)
Total % Cover of:					Provalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech 10 Yes FACU FACW species 0 x 1 = 0 CACW FACW species 0 x 3 = 30 CACW FACW species 10 x 3 = 30 CACW FACW species 95 x 4 = 380 CACW FACW species 95 x 4 = 380 CACW FACW FA	<i>1</i>				
Facus grandifolia American beech 10 Yes Facu Facus Facus	<u>-</u>	60	_ = Total Cove	er	
2.					
3. 4. 5. 6. 7. Herb Stratum (Plot size:5) 1. Thelypteris noveboracensis / New york fern 15 Yes FACU 2. Polystichum acrostichoides / Christmas fern 10 Yes FACU 3. Dryopteris intermedia / Evergreen wood fern 10 Yes FACU 4. 5. 6. 7. Definitions of Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0 to 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0 to 3 - Prevalence Index ≤ 3.0 to 4 - Morphological Adaptations (Provide supporting the present, unless disturbed or problematic.) 8. 9. 10. 10. 11. 12. 12. 13. 13. 14. 15. 16. 16. 17. 18. 18. 19. 19. 19. 10. 10. 10. 10. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19				FACU	
A.	2				
Column Totals: 105 (A) 410 Prevalence Index = B/A = 3.9 Herb Stratum (Plot size: 5)	2				
Prevalence Index = B/A = 3.9 The stratum (Plot size: 5	4				
6. 7.	5				
The Stratum (Plot size:					Prevalence Index = B/A = 3.9
Herb Stratum (Plot size: 5) 1. Thelypteris noveboracensis / New york fern 15 Yes FACU 2. Polystichum acrostichoides / Christmas fern 10 Yes FACU 3. Prevalence Index ≤3.0¹ 4. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Provide	7				Liudronhytia Vagatatian Indiantau-
Herb Stratum (Plot size: 5 5 7 1. Thelypteris noveboracensis / New york fern 15 Yes FACU 2. Polystichum acrostichoides / Christmas fern 10 Yes FACU 3. Dryopteris intermedia / Evergreen wood fern 10 Yes FACU 4. Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 1. Herb - All herbaceous (non-woody) plants less than 3.28 ft in height. 1. 1. 1. 1. 1. 1. 1.		10	= Total Cov	er	
1. Thelypteris noveboracensis / New york fern 2. Polystichum acrostichoides / Christmas fern 3. Dryopteris intermedia / Evergreen wood fern 4.	Herb Stratum (Plot size: 5)		_		-
2. Polystichum acrostichoides / Christmas fern 3. Dryopteris intermedia / Evergreen wood fern 4. 5. 6. 7. 8. 9. 10. 10. 11. 12. 12. 12. 13. 14. 15. 15. 16. 16. 16. 17. 18. 18. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		15	Yes	FACU	
3. Dryopteris intermedia / Evergreen wood fern 4.					 -
Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diamete breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH at greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					4 - Morphological Adaptations (Provide supporting
5. 6. 7. 8. 9. 9. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	1			1710	Problematic Hydrophytic Vegetation¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata					
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH at greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.					¹ Indicators of hydric soil and wetland hydrology must
8	7				be present, unless disturbed or problematic.
9. 10					
Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH are greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					Definitions of Vegetation Strata
11					
11	10		<u> </u>		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
Woody Vine Stratum (Plot size: 30) 1.	11				breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30) 1.	12				Sapling/shrub - Woody plants less than 3 in. DBH and
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic	<u>-</u>	35	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
2 Woody vines - All woody vines greater than 3.28 ft in height. 4 0 = Total Cover Hydrophytic	Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
3	1		_		size, and woody plants less than 3.28 ft tall.
3	2				Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic	3				
	4				
Vegetation		0	= Total Cove	er	Hydrophytic
regetation			_		Vegetation
Present? Yes No X					Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Evolain alternative procedures here or in a separate re	enort)			Tresent: 103 NO X

SOIL Sampling Point: 068-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/2 100 0-4 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ____ Depth (inches): **Hydric Soil Present?** No X Remarks: Root refusal at 4

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	County	Sampling Date:	07/24/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>		tate: New York		068-1W
Investigator(s):	Matt Spadoni, Joe Gall		Section, Township			vn of Ripley	
Landform (hillslope, terrace, etc			ief (concave, conv		Concave	. ,	(%): 3-8
Subregion (LRR or MLRA):					-79.7199730	•	` '
Soil Map Unit Name:		tin Channery silt loar			NWI classification		PEM
Are climatic / hydrologic condition		· · · · · · · · · · · · · · · · · · ·		No (If no		-	
• •	, or Hydrology	-	disturbed?		rcumstances" prese	,	(No
Are Vegetation , Soil					lain any answers in		<u> </u>
SUMMARY OF FINDING					-	•	
	-				cts, important	icatures, etc.	
Hydrophytic Vegetation Prese		X No		Sampled Area	., .,		
Hydric Soil Present?		X No		a Wetland?	Yes X		_
Wetland Hydrology Present?	Yes	X No	If yes, o	ptional Wetland Sit	te ID:	Wetland 67	
Remarks: (Explain alternative	procedures here or in a	separate report)	•				
remarks. (Explain alternative	procedures here or in a	ocparate report.)					
HYDROLOGY							
Wetland Hydrology Indicate	ors:						
Primary Indicators (minimum	of one required; check al	ll that apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1)		Water-Stained	Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)		Aquatic Fauna	(B13)		X Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Deposits	(B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfi	de Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		X Oxidized Rhizo	spheres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Re	educed Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron Re	eduction in Tilled S	oils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Sur	face (C7)		X Geomorphic	Position (D2)	
Inundation Visible on Ae	rial Imagery (B7)	Other (Explain	in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated Con	cave Surface (B8)				Microtopogr	aphic Relief (D4)	
-					X FAC-Neutra	l Test (D5)	
Field Observations:		V D " " 1					
Surface Water Present?		X Depth (inches	•	-			
Water Table Present?	Yes X No	Depth (inches	· —	-			
Saturation Present?	Yes X No	Depth (inches	s): 6	_ Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data (stre	eam gauge monitoring w	ell aerial nhotos pr	evious inspections) if available:			
Describe Necorded Bata (Sire	zam gaage, monitoring w	cii, acriai priotos, pri	evious inspections	,, ii avallabic.			
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point:068-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Tree Stratum (Plot size:30)	%Cover		Status	That Are OBL, FACW, or FAC: 2 (A)
	70COVEI	Species?	Status	Total Number of Deminent
1.	· ———			Total Number of Dominant
2.				Species Across All Strata: 2 (B)
3.				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 60 x 1 = 60
1. Fraxinus pennsylvanica / Green ash	5	Yes	FACW	FACW species 25 x 2 = 50
2.				FAC species 20 x 3 = 60
3.		<u>-</u> -		FACU species 0 x 4 = 0
4.		_		UPL species 0 x 5 = 0
5.				Column Totals: 105 (A) 170 (B)
•				Prevalence Index = B/A = 1.62
7				
7		- Total Cav		Hydrophytic Vegetation Indicators:
	5	_ = Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
1. Myosotis scorpioides / Forget me not, Water forget-me-not	60	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
Dryopteris intermedia / Evergreen wood fern	15	No	FAC	4 - Morphological Adaptations (Provide supporting
Onoclea sensibilis / Sensitive fern	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Impatiens capensis / Spotted jewelweed	10	No	FACW	Troblematic riyuropriytic vegetation (Explain)
5. Solidago rugosa / Wrinkle-leaf goldenrod	5	No	FAC	Madicators of hadring all and water of hadrages were
6.				¹Indicators of hydric soil and wetland hydrology must
7.		_		be present, unless disturbed or problematic.
8	-			Definitions of Venetation Streets
8. 			 	Definitions of Vegetation Strata
9.	-			
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 068-1W

Depth	ription: (Describe to th Matrix			k Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10 Y 2.5/1	80	10YR 4/6	20	С	M,PL	Clay			
	· 							-		
Type: C=Coi	ncentration, D=Depletion	n. RM=Redi	uced Matrix. MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=F	ore Lining, M=Mat	rix.
-			, , , , , , , , , , , , , , , , , , , ,							
ydric Soil I	ndicators:								ematic Hydric So	
Histosol	(A1)		Polyvalue Belov	v Surface (S8) (LRR R	MLRA 149E		•) (LRR K, L, MLR	•
Histic Ep	oipedon (A2)		Thin Dark Surfa				Coas	t Prairie Re	edox (A16) (LRR	K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	lineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S3) (LF	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S	67) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Belov	v Surface (S8) (LF	RR K, L)
Depleted	d Below Dark Surface (A	\11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR K, L	_)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-I	Manganese	e Masses (F12) (I	LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Flood	plain Soils (F19) (I	MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 144A	, 145, 149B)
	Redox (S5)								erial (F21)	
	l Matrix (S6)								ark Surface (TF12)	
	rface (S7) (LRR R, ML	RA 149B)							n Remarks) `	
_	,	. ,					_	(P -	,	
Indicators of	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	s disturbed	d or problema	atic.			
	.ayer (if observed):									
Type:	Rock									
Depth (in	cnes):	8					Hydric Soil P	resent?	Yes X	No
temarks:						•				
	Rock refusal at 8									

Project/Site:	19020 - South Ripley	City/Cou	ınty: Chautauqı	ua County	Sampling Date: 07/2	4/2020
Applicant/Owner:	' '	nnectGen LLC	· —	State: New York		9-1U
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		n of Ripley	
Landform (hillslope, terrace, etc			cave, convex, none):	Convex	' '	2-5
Subregion (LRR or MLRA):	I RR R MI RA 139		20487292 Long:			IAD 83
Soil Map Unit Name:		nery silt loam, 8-15 percent		NWI classificatio		17 ID 00
Are climatic / hydrologic conditi		, , ,	•	no, explain in Remarks		
, ,	ons on the site typical for the, or Hydrology			Circumstances" prese	•	lo
Are Vegetation , Soil		naturally problemation		xplain any answers in		
<u> </u>				•	•	
SUMMARY OF FINDING	5 - Attach site map s	nowing sampling p	oint locations, trans	ects, important i	eatures, etc.	
Hydrophytic Vegetation Pres	ent? Yes		Is the Sampled Area			
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX	
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetland	Site ID:		
Demontos (Euntain alternative						
Remarks: (Explain alternative	procedures here or in a se	parate report.)				
HYDROLOGY						
Wetland Hydrology Indicate	ors:					
Primary Indicators (minimum		nat apply)		Secondary Indica	tors (minimum of two requ	iired)
Surface Water (A1)	or one required, erroen air a	Water-Stained Leaves	(B9)	Surface Soil		
High Water Table (A2)	_	Aquatic Fauna (B13)	(20)	Drainage Pa		
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)	_	Hydrogen Sulfide Odor	· (C1)		Water Table (C2)	
Sediment Deposits (B2)	_	Oxidized Rhizospheres		Crayfish Bur		
1 -	_	_	- ' '			20)
Drift Deposits (B3)	_	Presence of Reduced I	` '		isible on Aerial Imagery (0	J9)
Algal Mat or Crust (B4)	_	Recent Iron Reduction	` '		tressed Plants (D1)	
Iron Deposits (B5)		_ Thin Muck Surface (C7			Position (D2)	
Inundation Visible on Ae		Other (Explain in Rema	arks)	Shallow Aqu		
Sparsely Vegetated Cor	icave Surface (B8)				aphic Relief (D4)	
				FAC-Neutral	lest (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present?	Yes No X	_ ' '	Wotland H	lydrology Present?	Yes No	X
(includes capillary fringe)	165 NO _X	Deptit (inches).		iyurology Fresent:	Yes No _	
(includes capillary intige)						
Describe Recorded Data (str	eam gauge, monitoring well	, aerial photos, previous ir	spections), if available:			
(11	3 3 3 4 5 4 5 4 5 4 5	,	.,,			
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
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Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						
Remarks:						

Absolute Tree Stratum (Plot size: 30) %Cover 1. Acer saccharum / Sugar maple 65 2. Fraxinus pennsylvanica / Green ash 10 3.	= Total Cove	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 0 FACW species 0 x 3 = 0 0 FACU species 0 x 3 = 0 0 FACU species 0 x 5 = 0 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
Tree Stratum (Plot size: 30) %Cover 1. Acer saccharum / Sugar maple 65 2. Fraxinus pennsylvanica / Green ash 10 3.	Species? Yes No Total Cove Yes Total Cove Yes	FACU FACU FACU	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet:
Tree Stratum (Plot size: 30 %Cover 1. Acer saccharum / Sugar maple 65 2. Fraxinus pennsylvanica / Green ash 10 3.	Species? Yes No Total Cove Yes Total Cove Yes	FACU FACU FACU	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet:
1. Acer saccharum / Sugar maple 65 2. Fraxinus pennsylvanica / Green ash 10 3.	Yes No Total Cove Yes Total Cove Yes	FACU FACU FACU	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 3.55 Hydrophytic Vegetation Indicators:
2. Fraxinus pennsylvanica / Green ash 10 3	= Total Cove Yes = Total Cove Yes	FACU	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 3.55 Hydrophytic Vegetation Indicators:
3.	= Total Cove Yes = Total Cove Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
4	= Total Cove Yes = Total Cove Yes	FACU	Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55
5	= Total Cove Yes = Total Cove Yes	FACU	Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55
5	= Total Cove Yes = Total Cove Yes	FACU	Prevalence Index worksheet: Total % Cover of:
6	= Total Cove Yes = Total Cove	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55
7	= Total Cove Yes = Total Cove Yes	FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55
T5 Sapling/Shrub Stratum (Plot size: 15) 1. Rubus idaeus / Common red raspberry 10 2.	Yes = Total Cove	FACU	OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55
1. Rubus idaeus / Common red raspberry 10 2. 3. 3. 4. 5. 6. 7. 10 Herb Stratum (Plot size: 5) 1 1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.	= Total Cove		FACW species 25 x 2 = 50 FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
1. Rubus idaeus / Common red raspberry 10 2. 3. 3. 4. 5. 6. 7. 10 Herb Stratum (Plot size: 5) 1 1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.	= Total Cove		FAC species 0 x 3 = 0 FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
2.	= Total Cove		FACU species 85 x 4 = 340 UPL species 0 x 5 = 0 Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
3.	= Total Cove		$ \begin{array}{c cccc} UPL \ species & 0 & x \ 5 = & 0 \\ Column \ Totals: & 110 & (A) & 390 & (B) \\ Prevalence \ Index = B/A = & & 3.55 \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
4.	= Total Cove		Column Totals: 110 (A) 390 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
5. 6. 7. 10 Herb Stratum (Plot size: 5) 1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.	= Total Cove		Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
6	= Total Cove		Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators:
7	= Total Cove		Hydrophytic Vegetation Indicators:
10 Herb Stratum (Plot size: 5) 1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.	Yes	er	
Herb Stratum (Plot size: 5) 1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.	Yes	; 1	
1. Fraxinus pennsylvanica / Green ash 15 2. Rubus idaeus / Common red raspberry 10 3. 4.			1 - Rapid Test for Hydrophytic Vegetation
Rubus idaeus / Common red raspberry 3. 4. 5. 6. 7. 8. 8. 9. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		E4 014/	2 - Dominance Test is >50%
3	YAS	FACW	3 - Prevalence Index ≤3.01
4.		FACU	4 - Morphological Adaptations (Provide supporting
		· ———	Problematic Hydrophytic Vegetation¹ (Explain)
5		· ———	_ , , , , , , , , , , , , , , , , , , ,
			¹Indicators of hydric soil and wetland hydrology must
6			be present, unless disturbed or problematic.
7			
8	_		Definitions of Vegetation Strata
9	_		
10			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11			breast height (DBH), regardless of height.
12			Sapling/shrub - Woody plants less than 3 in. DBH and
25	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)			Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2.			Woody vines - All woody vines greater than 3.28 ft in
3.			height.
4.			
	= Total Cove	er	Hydrophytic
	_		Vegetation
			Present? Yes NoX

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4	10YR 3/1	100					Loam			
							200			
		· ·								
		· · · · · · · · · · · · · · · · · · ·								
	-									
		· ·								
		· .								
	-									
¹Type: C=Con	centration, D=Depletio	n RM=Reduc	ced Matrix MS=Mas	ked Sand Gra	ains		²l oca	tion: PI =Po	ore Lining, M=Matrix.	
1,700.0 0011	Dopious	,	ou main, me mae	nou cuna cn	AII 10.				oro Emmig, W. Matrix.	
Hydric Soil Ir	ndicators:						Indicators	for Proble	ematic Hydric Soils³:	
-			5 5.	0 1 101						
Histosol	(A1)		Polyvalue Belov				3) 2 cm	Muck (A10)) (LRR K, L, MLRA 149B)	
Histic Ep	ipedon (A2)		Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)	Coast	Prairie Re	dox (A16) (LRR K, L, R)	
Black His	stic (A3)	•	Loamy Mucky N	/lineral (F1)	IRRK I)				t or Peat (S3) (LRR K, L, R)	
		•								
	n Sulfide (A4)		Loamy Gleyed						7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A	A11)	Redox Dark Su	rface (F6)			Thin [Dark Surfac	e (S9) (LRR K, L)	
	rk Surface (A12)	,	Depleted Dark	` ,					Masses (F12) (LRR K, L, R	١.
								-		
	ucky Mineral (S1)	•	Redox Depress	ions (F8)					olain Soils (F19) (MLRA 149B	-
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA	46) (MLRA 144A, 145, 149B	3)
Sandy R	edox (S5)						Red F	Parent Mate	erial (F21)	
	Matrix (S6)								rk Surface (TF12)	
Dark Sur	face (S7) (LRR R, ML	_RA 149B)					Other	(Explain in	Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent, unles	s disturbed	or problema	atic.			
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
		and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive La	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
		and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic. Hydric Soil P	resent?	Yes X No	
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	<u> </u>
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problems		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problems		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes X No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problems		resent?	YesX No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	YesX No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problems		resent?	Yes <u>X</u> No	
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problems		resent?	Yes X No	_
Restrictive La Type: Depth (inc	ayer (if observed):	and wetland	hydrology must be p	resent, unles	s disturbed	or problema		resent?	YesX No	

Project/Site:	19020 - South Ripley	City/Cour	nty: Chaut	tauqua County	Sampling Date: 07/24/2020
Applicant/Owner:	Connec	tGen LLC		State: New York	Sampling Point: 069-1W
Investigator(s):		Section,	Township, Range:	Tov	wn of Ripley
Landform (hillslope, terrace, et			ave, convex, none):	Concave	Slope (%): 3-8
Subregion (LRR or MLRA):				ong: -79.7213148	82 Datum: NAD 83
Soil Map Unit Name:		annery silt loam 8-15		NWI classification	
Are climatic / hydrologic condit	tions on the site typical for this tin	ne of year? Yes	X No	(If no, explain in Remark	(S.)
	or Hydrology	significantly disturbed		mal Circumstances" prese	ent? Yes X No
	, or Hydrology	naturally problematic	? (If neede	ed, explain any answers in	Remarks.)
	GS - Attach site map sho			ansects, important	features, etc.
Hydrophytic Vegetation Pres		No	Is the Sampled Are	-	
Hydric Soil Present?			within a Wetland?		No
Wetland Hydrology Present		No No	If yes, optional Wetl		Wetland 69
vvetiana riyarology i resent	103 <u>X</u>		ii yes, optional weth	and one ib.	vvettaria 03
Remarks: (Explain alternativ	e procedures here or in a separa	ite report.)			
HYDROLOGY					
Wetland Hydrology Indicat				0	-t (i-i
	n of one required; check all that a	,	DO)		ators (minimum of two required)
Surface Water (A1)		Vater-Stained Leaves (59)		Cracks (B6)
X High Water Table (A2)		quatic Fauna (B13)		X Drainage Pa	
X Saturation (A3) Water Marks (B1)		farl Deposits (B15) lydrogen Sulfide Odor	(04)	Moss Trim L	
		, ,	` '		Water Table (C2)
Sediment Deposits (B2	· —	oxidized Rhizospheres	• ,		
Drift Deposits (B3)		resence of Reduced Ir	, ,		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		lecent Iron Reduction i			Stressed Plants (D1)
Iron Deposits (B5)		hin Muck Surface (C7)		X Geomorphic	·
Inundation Visible on A	-	other (Explain in Rema	KS)	Shallow Aqu	
Sparsely Vegetated Co	ncave Surface (B8)				raphic Relief (D4)
				X FAC-Neutra	.i lest (D5)
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X	Depth (inches):			
Saturation Present?	Yes X No	Depth (inches):	6 Wetla	nd Hydrology Present?	Yes X No
(includes capillary fringe)		,		, 0,	
. , , , , ,					
Describe Recorded Data (st	ream gauge, monitoring well, aer	ial photos, previous in	spections), if available	; :	
Remarks:			-	-	
remarks.					

VEGETATION - Use scientific names of plants.				Sampling Point: 069-1W
-				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	11100 00 00 00 00 00 00 00 00 00 00 00 0
1. Acer saccharum / Sugar maple	25	Yes	FACU	Total Number of Dominant
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 5 (B)
3.		103	TAOW	Species Across Air Strata.
				Percent of Dominant Species
4				·
5.				That Are OBL, FACW, or FAC: 80.0 (A/B)
6.	-	-	<u> </u>	Prevalence Index worksheet:
7		T-4-1 O-1		Total % Cover of: Multiply by:
0 1: (01 1 0) ((01 1)	35	_ = Total Cov	er	OBL species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: 15)	4.0	.,	54 O.47	FACW species 50 x 2 = 100
Lindera benzoin / Northern spicebush	10	Yes	FACW	FAC species 30 x 3 = 90
2				· — — — — — — — — — — — — — — — — — — —
3	_			
4				UPL species 0 x 5 = 0
5				Column Totals: 105 (A) 290 (B)
6		_,		Prevalence Index = B/A = 2.76
7				Lludranhutia Vagatatian Indicatora
	10	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	25	Yes	FACW	X 2 - Dominance Test is >50%
Polygonum virginianum / Jumpseed	15	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
3. Osmunda claytoniana / Interrupted fern	5	No	FAC	4 - Morphological Adaptations (Provide supporting
4. <i>Dryopteris intermedia /</i> Evergreen wood fern	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Solidago rugosa / Wrinkle-leaf goldenrod	5	No	FAC	
6. Onoclea sensibilis / Sensitive fern	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
7.			TAOW	be present, unless disturbed or problematic.
		_		
8.	-	-	<u> </u>	Definitions of Vegetation Strata
9.			<u> </u>	
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	60	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 069-1W

Depth (inches)	Matrix		Redo	x Features			e of indicators			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-5	2.5Y 3/1	100					Loam			
5-8	10YR 6/3	80	10YR 6/8	20	С	PL,M	Clay			
					·					
					·					
Type: C=Cor	ncentration, D=Depletion	ı, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M=M	atrix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric S	ioils³:
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R. I	MLRA 149E) (LRR K, L, ML	
	pipedon (A2)		Thin Dark Surfa					•	dox (A16) (LRI	•
Black Hi			Loamy Mucky N			,			t or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed		,, _ /				7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					-	Surface (S8)	BBK I)
	d Below Dark Surface (A	11)	Redox Dark Su						ce (S9) (LRR K	· •
		.11)	Depleted Dark Su							
	ark Surface (A12)							-	Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					olain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 144	IA, 145, 149B)
	Redox (S5)							arent Mate		
	Matrix (S6)								rk Surface (TF1	2)
Dark Su	rface (S7) (LRR R, MLF	RA 149B)					Other	(Explain in	Remarks)	
Indicators of	hydrophytic vegetation a	and wetland	hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
	.ayer (if observed):									
Type:	Rock	`					Unidate Oatt Da		V V	NI-
Depth (in	ches): 8	3					Hydric Soil Pr	esent?	Yes X	No
Remarks:										
	Refusal at 8									

Project/Site:	19020 - 3	South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	07/24/2020		
Applicant/Owner:			nnectGen LLC			•	ate: New York		070-1U		
Investigator(s):	Matt Spa	doni & Joe Gallo		Section.	Township, Rar			wn of Ripley			
Landform (hillslope, terrace			Local r	•	ave, convex, n		Convex	Slope	e (%): 2-5		
Subregion (LRR or MLRA)		R R MLRA 139	Lat:	-	20487292	Long:	-79.721421		` '		
Soil Map Unit Name:	•						NWI classification				
Are climatic / hydrologic co						(If no,	explain in Remark				
Are Vegetation ,			•	ly disturbed			cumstances" prese	•	X No		
		or Hydrology		•			ain any answers in		<u> </u>		
SUMMARY OF FIND						-	•	·			
Hydrophytic Vegetation		Yes					rto, important	10414100, 0101			
Hydric Soil Present?	rieseili	Yes	NoX NoX	_	Is the Samp		Voc	No. V			
Wetland Hydrology Pres	cont?	Yes	NoX	_		nal Wetland Site		NoX	_		
welland Hydrology Fres	ent:		NO	_	ii yes, opiioi	iai welianu Sili	= ID				
Remarks: (Explain alterr	native procedure	es here or in a sep	parate report.)								
HYDROLOGY		-									
Wetland Hydrology Ind	licators:										
Primary Indicators (mini		uirod: chook all th	at apply)				Socondary India	ators (minimum of t	two required)		
		ulled, check all th		d Loavos (DO)			l Cracks (B6)	wo required)		
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)							atterns (B10)				
Saturation (A3)	H2)	-	-	,							
Water Marks (B1)		_	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)				Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits	(P2)	_	_ , ,		on Living Roo	to (C2)	Crayfish Bu				
1 	(BZ)	-	_		-	iis (C3)			200n/ (C0)		
Drift Deposits (B3)	(D4)	_	Presence of			(C6)		/isible on Aerial Ima			
Algal Mat or Crust (Iron Deposits (B5)	(D4)	_	Thin Muck S		n Tilled Soils ((00)		Stressed Plants (D1 c Position (D2)	1)		
Inundation Visible of	on Aorial Imagar		Other (Expla	, ,			Shallow Aqu				
Sparsely Vegetated	_		_ Other (Expla	III III Neillai	185)			raphic Relief (D4)			
Sparsely vegetated	1 Concave Suna	ice (Do)					FAC-Neutra				
Field Observations:											
Surface Water Present?	Yes	No <u>X</u>	_ ' '	· -							
Water Table Present?	Yes	NoX	_ ' '	· —							
Saturation Present?	Yes	No <u>X</u>	Depth (inch	ies):		Wetland Hyd	rology Present?	Yes	No X		
(includes capillary fringe	e)										
Describe Recorded Data	a (etream gauge	monitoring well	aerial photos u	orevious ins	enections) if a	vailable:					
Describe Necorded Date	a (stream gauge	, monitoring well,	aeriai priotos, į	previous iris	speciions), ii c	ivaliable.					
Remarks:											

/EGETATION - Use scientific names of plants.				Sampling Point:070-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	65	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	10	No	FACW	Species Across All Strata: 4 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	75	= Total Cov	ver	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1. Rubus idaeus / Common red raspberry	10	Yes	FACU	FACW species 25 x 2 = 50
2.				FAC species 0 x 3 = 0
3.				FACU species 85 x 4 = 340
4.				UPL species 0 x 5 = 0
E			- 	Column Totals: 110 (A) 390 (B)
^				Prevalence Index = B/A = 3.55
-		_	-	
<i>1.</i>		= Total Cov		Hydrophytic Vegetation Indicators:
Horb Stratum (Diet size: F.)		_ = 10(a) C0V	'CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	15	Voo	EACW	2 - Dominance Test is >50%
Fraxinus pennsylvanica / Green ash Pubus idasus / Common rad reachests	<u>15</u> 10	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Rubus idaeus / Common red raspberry	10	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4		_		
5				¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	25	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	ate report.)			

SOIL Sampling Point: 070-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/1 100 0-4 Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes X No Remarks: Root refusal at 4

US Army Corps of Engineers

Project/Site:	19020 - South Ripley	City/Cour	nty: Chau	ıtaugua County	Sampling Date: 07/24/2020
	Connec	tGen LLC		State: New York	Sampling Point: 070-1W
Investigator(s):		Section,	Township, Range:	To	wn of Ripley
Landform (hillslope, terrace, etc	c): Hillside seep	Local relief (conca	ave, convex, none):	Concave	Slope (%): 3-8
Subregion (LRR or MLRA):				ong: -79.721314	82 Datum: NAD 83
Soil Map Unit Name:	Mardin ch	annery silt loam 8-15		NWI classification	on: PFO
Are climatic / hydrologic condition	ons on the site typical for this tim	e of year? Yes	X No	(If no, explain in Remark	(S.)
Are Vegetation , Soil	, or Hydrology	significantly disturbed	d? Are "No	- ormal Circumstances" prese	ent? Yes X No
	, or Hydrology			ed, explain any answers in	
	S - Attach site map show	—		ransects, important	features, etc.
Hydrophytic Vegetation Prese		No	Is the Sampled Ar	-	·
Hydric Soil Present?		No	within a Wetland?		No
Wetland Hydrology Present?		No	If yes, optional We		Wetland 69
Remarks: (Explain alternative	e procedures here or in a separa	te report.)			
HYDROLOGY					
Wetland Hydrology Indicate	ors:				
, ,,	of one required; check all that a	pply)		Secondary Indicate	ators (minimum of two required)
Surface Water (A1)		ater-Stained Leaves (B9)		il Cracks (B6)
X High Water Table (A2)	<u> </u>	quatic Fauna (B13)	•	X Drainage P	atterns (B10)
X Saturation (A3)	M	arl Deposits (B15)		Moss Trim I	
Water Marks (B1)	н	ydrogen Sulfide Odor	(C1)	Dry-Seasor	n Water Table (C2)
Sediment Deposits (B2)	0	xidized Rhizospheres	on Living Roots (C3)		, ,
Drift Deposits (B3)	P	resence of Reduced Ir	on (C4)	Saturation \	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	R	ecent Iron Reduction i	n Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	TI	nin Muck Surface (C7)	1	X Geomorphic	c Position (D2)
Inundation Visible on Ae	- · · · · —	ther (Explain in Rema	rks)	Shallow Aq	
Sparsely Vegetated Cor	ıcave Surface (B8)			 · · ·	raphic Relief (D4)
				X FAC-Neutra	ıl Test (D5)
Field Observations:					
Surface Water Present?	Yes No X	Depth (inches):			
Water Table Present?	Yes No X	Depth (inches):			
Saturation Present?	Yes X No	Depth (inches):	6 Wetla	and Hydrology Present?	Yes X No
(includes capillary fringe)	<u> </u>				
Describe Described Date (str					
Describe Recorded Data (str	eam gauge, monitoring well, aeri	al photos, previous ins	spections), if availabl	e:	
Remarks:					

VEGETATION - Use scientific names of plants.				Sampling Point:070-1W
-				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	111000000000000000000000000000000000000
1. Acer saccharum / Sugar maple	25	Yes	FACU	Total Number of Dominant
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 5 (B)
3.		103	TAOW	Species Across Air Strata (b)
		_		Percent of Dominant Species
4				·
5.				That Are OBL, FACW, or FAC: 80.0 (A/B)
6.	-	-		Prevalence Index worksheet:
7		T-4-1 O		Total % Cover of: Multiply by:
0 1: (01 1 01 1 (D) 1 : 45	35	_ = Total Cov	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)	4.0	.,	E4 014/	FACW species 50 x 2 = 100
1. Lindera benzoin / Northern spicebush	10	Yes	FACW	FAC species 30 x 3 = 90
2		_		FACU species 25 x 4 = 100
3	_			
4				
5		_		Column Totals: 105 (A) 290 (B)
6				Prevalence Index = B/A = 2.76
7	-			Hydrophytic Vegetation Indicators:
	10	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				
Impatiens capensis / Spotted jewelweed	25	Yes	FACW	X 2 - Dominance Test is >50%
2. Polygonum virginianum / Jumpseed	15	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
3. Osmunda claytoniana / Interrupted fern	5	No	FAC	4 - Morphological Adaptations (Provide supporting
Dryopteris intermedia / Evergreen wood fern	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
5. Solidago rugosa / Wrinkle-leaf goldenrod	5	No	FAC	
6. Onoclea sensibilis / Sensitive fern	5	No	FACW	¹Indicators of hydric soil and wetland hydrology must
7			171011	be present, unless disturbed or problematic.
	-	-		
8 9.				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		-		breast height (DBH), regardless of height.
12		= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Was do Vina Otrations (Districts	60	_ = 10tal Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.	_			size, and woody plants less than 3.28 ft tall.
2		_		Woody vines - All woody vines greater than 3.28 ft in
3	_			height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 070-1W

Depth	iption: (Describe to the Matrix	ne ueptii ile		k Features	or commit	i die absell	Se of mulcators	o. j		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	S
0-5	2.5Y 3/1	100					Loam	-		
5-8	10YR 6/3	80	10YR 6/8	20	C	M,PL	Clay			
	-									
	-									
Type: C=Con	centration, D=Depletion	n PM=Redu		ked Sand Gr	raine		2l ocat	tion: PI =P	ore Lining, M	=Matriy
		, KW-Keuu	liced Matrix, Mio-Masi		allis.					
ydric Soil Ir			5 5.	0 ((0	a				ematic Hydri	
Histosol	• •		Polyvalue Belov	•			· —	•		MLRA 149B)
	ipedon (A2)		Thin Dark Surfa						edox (A16) (L	
_ Black His			Loamy Mucky N		(LKR K, L)					(LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed I						7) (LRR K, L	
	Layers (A5)	A 4 4 \	X Depleted Matrix						Surface (S8)	
	Below Dark Surface (ATT)	Redox Dark Sui	. ,					ce (S9) (LRR	
	rk Surface (A12)		Depleted Dark S					-	•	2) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	leyed Matrix (S4)									144A, 145, 149B)
	edox (S5)								erial (F21)	E40)
	Matrix (S6)								ark Surface (T	F12)
Dark Sur	face (S7) (LRR R, ML	_RA 149B)					Other	(Explain ir	n Remarks)	
ndicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
Restrictive L	ayer (if observed):									
Type:	Rock									
Depth (inc	ches):	8					Hydric Soil Pr	resent?	Yes X	No
	,								-	
lemarks:	Refusal at 8									
·										

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauc	ua County	Sampling Date: 07/24/2020			
Applicant/Owner:		nnectGen LLC	,	State: New York				
Investigator(s):	Matt Spadoni & Joe Gallo		Township, Range:		n of Ripley			
Landform (hillslope, terrace, etc			ave, convex, none):					
Subregion (LRR or MLRA):	I RR R MI RA 139		20487292 Long					
Soil Map Unit Name:		ery silt loam, 8-15 percent		NWI classificatio				
Are climatic / hydrologic condition		, ,	•	no, explain in Remarks				
, ,	ons on the site typical for the		`	Circumstances" prese	•			
Are Vegetation , Soil		naturally problemation		explain any answers in				
<u> </u>				•	·			
SUMMARY OF FINDING	5 - Attach site map s	nowing sampling p	oint locations, trans	sects, important i	eatures, etc.			
Hydrophytic Vegetation Prese	ent? Yes		Is the Sampled Area					
Hydric Soil Present?	Yes	NoX	within a Wetland?	Yes	NoX			
Wetland Hydrology Present?	Yes	NoX	If yes, optional Wetland	Site ID:				
Demonstration of the management of								
Remarks: (Explain alternative	procedures here or in a se	parate report.)						
HYDROLOGY								
Wetland Hydrology Indicate	ors:							
Primary Indicators (minimum		nat annly)		Secondary Indica	tors (minimum of two required)			
Surface Water (A1)	of othe required, check all ti	Water-Stained Leaves	/R0)	Surface Soil				
High Water Table (A2)	_	(09)	Drainage Pa					
_ ·	_	_ Aquatic Fauna (B13)		Moss Trim L				
Saturation (A3)	_	Marl Deposits (B15)	(C1)		,			
Water Marks (B1)	_	_ Hydrogen Sulfide Odor		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	_	_ Oxidized Rhizospheres		Crayfish Bur				
Drift Deposits (B3)	_	Presence of Reduced I	` ,		isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	_ Recent Iron Reduction	` '		tressed Plants (D1)			
Iron Deposits (B5)	_	Thin Muck Surface (C7	•		Position (D2)			
Inundation Visible on Ae	-	Other (Explain in Rema	arks)	Shallow Aqu				
Sparsely Vegetated Con	cave Surface (B8)				aphic Relief (D4)			
				FAC-Neutral	Test (D5)			
Field Observations:								
	Voc. No. V	Donth (inches):						
Surface Water Present?	Yes NoX Yes No X	_ ' '						
Water Table Present?		_ ' '		U	Vo-			
Saturation Present?	Yes NoX	Depth (inches):	vvetiand	Hydrology Present?	Yes NoX			
(includes capillary fringe)								
Describe Recorded Data (stre	eam gauge monitoring well	aerial photos previous in	spections) if available:					
Describe Necorded Bala (Silv	zam gaage, morntoning wen,	dendi priotos, previous in	ispections), if available.					
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:071-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Tree Stratum (Plot size: 30)	%Cover			That Are OBL, FACW, or FAC: 1 (A)
		Species?	Status	Total Number of Deminant
Acer saccharum / Sugar maple Superior and a superior / Opening	65	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	10	No	FACW	Species Across All Strata: 4 (B)
3.		_		
4	_	_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25.0 (A/B)
6		_		
7				Prevalence Index worksheet:
	75	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Rubus idaeus / Common red raspberry	10	Yes	FACU	FACW species 25 x 2 = 50
. , ,				FAC species 0 x 3 = 0
2.	-		·	FACU species 85 x 4 = 340
3.				UPL species 0 x 5 = 0
4				Column Totals: 110 (A) 390 (B)
5.				Prevalence Index = B/A = 3.55
6				Prevalence index – b/A – 3.55
7				Hydrophytic Vegetation Indicators:
	10	= Total Cove	er	
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Fraxinus pennsylvanica / Green ash	15	Yes	FACW	2 - Dominance Test is >50%
2. Rubus idaeus / Common red raspberry	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
3.			17100	4 - Morphological Adaptations (Provide supporting
		-	. ———	Problematic Hydrophytic Vegetation¹ (Explain)
4				
5		_		¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				as present, amoss distances or presistingue.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				
	25	= Total Cove	er.	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Mandy Vine Stratum (Plot size: 20		_ = 10(a) COV	5 1	
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.		_		size, and woody plants less than 3.28 ft tall.
2	_			Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cove	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	e report.)			
()	,			

SOIL Sampling Point: 071-1U

Depth	ription: (Describe to the Matrix	<u> </u>		x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10YR 3/1	100					Loam			
				_						
				_						
				_						
				_						
Type: C=Co	ncentration, D=Depletion	, RM=Reduc	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, M=N	latrix.
ludeia Cail I	malia atawa						lundi a atawa	fan Duahl	amatia Uluduia (Daila3.
lydric Soil I			5 5.	0 1 101					ematic Hydric S	
Histosol	• •	-	Polyvalue Belo					•) (LRR K, L, MI	•
	pipedon (A2)	-	Thin Dark Surfa			49B)			edox (A16) (LR	
	istic (A3)	-	Loamy Mucky I		LRR K, L)				at or Peat (S3) (LKR K, L, R)
_ · ·	en Sulfide (A4)	-	Loamy Gleyed					-	7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						Surface (S8) (· · ·
	d Below Dark Surface (A	.11)	Redox Dark Su						ce (S9) (LRR K	
	ark Surface (A12)	-	Depleted Dark					ū	Masses (F12)	
	Mucky Mineral (S1)	-	Redox Depress	sions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)							Parent Mate		
	l Matrix (S6)								ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, MLI	RA 149B)					Other	(Explain ir	n Remarks)	
31 malionatoro of	i huduanhudia waadadiaa d	and wattend	hdu.a.l.a.a		م مانمان سام ما م		nti n			
THUICALOIS OF	hydrophytic vegetation a	and welland	nydrology must be p	mesent, unies	s disturbed of	problema	auc.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
	Root refusal at 4									

Project/Site:	19020 - South Ripley	City/County:	Chautauqua County	Sampling Date: 07/24/2020
Applicant/Owner:	ConnectGen LL		State: Nev	w York Sampling Point: 071-1W
Investigator(s):	Matt Spadoni, Joe Gallo	Section, Township	Range:	Town of Ripley
Landform (hillslope, terrace, et				ncave Slope (%): 3-8
Subregion (LRR or MLRA):			Long: -79	9.72131482 Datum: NAD 83
Soil Map Unit Name:		ilt loam 8-15		assification: PFO
Are climatic / hydrologic condit	ions on the site typical for this time of yea	r? Yes X	No (If no, explain ir	n Remarks.)
		antly disturbed?	Are "Normal Circumstance	es" present? Yes X No
	, or Hydrology natural	y problematic?	(If needed, explain any ar	nswers in Remarks.)
	SS - Attach site map showing s		ations, transects, imp	ortant features, etc.
Hydrophytic Vegetation Pres			ampled Area	
Hydric Soil Present?			•	es X No
Wetland Hydrology Present			ptional Wetland Site ID:	Wetland 69
vvetiana riyarology i resent	103 <u>X</u> 110	II ycs, c	ptional Wetland Oile ID.	Wettand 05
Remarks: (Explain alternativ	e procedures here or in a separate report)		
HYDROLOGY				
Wetland Hydrology Indicat			0	
	of one required; check all that apply)	inad Lagues (DO)		ary Indicators (minimum of two required)
Surface Water (A1)	 -	ined Leaves (B9)		rface Soil Cracks (B6)
X High Water Table (A2)		auna (B13)		ainage Patterns (B10)
X Saturation (A3) Water Marks (B1)		osits (B15) Sulfide Odor (C1)		oss Trim Lines (B16)
	_ ′ •	` ,		y-Season Water Table (C2)
Sediment Deposits (B2	· —	Rhizospheres on Living	` ' —	ayfish Burrows (C8)
Drift Deposits (B3)		of Reduced Iron (C4)		turation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		on Reduction in Tilled S	` '	unted or Stressed Plants (D1)
Iron Deposits (B5)		(Surface (C7)		eomorphic Position (D2)
Inundation Visible on A		plain in Remarks)		allow Aquitard (D3)
Sparsely Vegetated Co	ncave Surface (B8)			crotopographic Relief (D4)
			<u> </u>	.C-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes NoX Depth (ii	nches):	_	
Water Table Present?	Yes NoX Depth (ii	nches):	_	
Saturation Present?	Yes X No Depth (ii	nches): 6	Wetland Hydrology Pr	resent? Yes X No
(includes capillary fringe)				
Describe Described Date (at				
Describe Recorded Data (st	ream gauge, monitoring well, aerial photo	s, previous inspections), it available:	
Remarks:				

				Sampling Point: 071-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A
ee Stratum (Plot size: 30)	%Cover	Species?	Status	
				Total Number of Deminant
Acer saccharum / Sugar maple	25	Yes	FACU	Total Number of Dominant
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 6 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 83.3 (A
				Prevalence Index worksheet:
	35	= Total Cov	or	Total % Cover of: Multiply by:
I' (OL 1 OL 1 (DL 1)		_ = 10tal Cov	ы	OBL species 0 x 1 = 0
pling/Shrub Stratum (Plot size: 15)				
Lindera benzoin / Northern spicebush	10	Yes	FACW	FACW species 60 x 2 = 120
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FAC species x 3 = 90
				FACU species 25 x 4 = 100
			<u> </u>	UPL species 0 x 5 = 0
			 	Column Totals: 115 (A) 310
				Prevalence Index = B/A = 2.7
				Hadron badis Versatedia a la diseterna
	20	= Total Cov	er	Hydrophytic Vegetation Indicators:
b Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
	0.5	Vaa	EAC\4/	X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	25	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Polygonum virginianum / Jumpseed	15	Yes	FAC	4 - Morphological Adaptations (Provide supporting
Osmunda claytoniana / Interrupted fern	5	No	FAC	
Oryopteris intermedia / Evergreen wood fern	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Solidago rugosa / Wrinkle-leaf goldenrod		No	FAC	
				¹ Indicators of hydric soil and wetland hydrology must
Onoclea sensibilis / Sensitive fern	5	<u>No</u>	FACW	be present, unless disturbed or problematic.
				The second secon
				Definitions of Vegetation Strata
				- W
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a
				breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
	60	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
ody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
,				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
	0	= Total Cov	er	Hydrophytic
			. .	Vegetation
				Present? Yes X No

SOIL Sampling Point: 071-1W

Depth	ription: (Describe to the Matrix	ie aeptn nee		i e indicator < Features	or confirm	rne absen	ce of indicators	s.)
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-14	2.5Y 3/1	100	,		<u> </u>		Loam	
14-18	10YR 6/3	80	10YR 6/8	20	С	PL,M	Clay	
				_				
				-				
¹Type: C=Cor	centration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Mask	ked Sand Gr	rains.		²Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil II	ndicators:						Indicators	s for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	v Surface (S	8) (I RR R	MI RA 1491		Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	_	Thin Dark Surfa	•	, ,		· —	t Prairie Redox (A16) (LRR K, L, R)
Black Hi		_	Loamy Mucky M					Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed N	, ,	(LIXIX IX, L)			Surface (S7) (LRR K, L)
	Layers (A5)	-	X Depleted Matrix					ralue Below Surface (S8) (LRR K, L)
	l Below Dark Surface (/	_	Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	irk Surface (A12)		Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	` '	-						nont Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)	-	Redox Depressi	ons (Fo)				
	leyed Matrix (S4)							C Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Parent Material (F21)
	Matrix (S6)	DA 440D)						Shallow Dark Surface (TF12)
Dark Sui	face (S7) (LRR R, ML	.KA 1496)					Other	(Explain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland h	nydrology must be p	resent, unle	ss disturbed	l or problem	atic.	
Postriotivo I	ayer (if observed):							
Type:								
Depth (in	chee).						Hydric Soil P	resent? Yes X No
Deptil (iii							Hydric 30ii P	resent? Yes X No
Remarks:								

Project/Site:	19020 -	South Ripley		City/County:	C	Chautauqua C	county	Sampling Date:	07/28/2020
Applicant/Owner:		Con	nectGen LLC	,		· ·	te: New York		072-01U
Investigator(s):		HK SPF		Section, Tow	nship, Range		Tov	wn of Ripley	
Landform (hillslope, terra	ce, etc):	Hill slope	Local rel	lief (concave,	convex, none	e):	Convex	Slope	e (%): 13
Subregion (LRR or MLRA	4): LR	R R MLRA 139	Lat:	42.2031	12163	Long:	-79.720544	2 Datur	n: NAD 83
Soil Map Unit Name:			Erie silt loam				NWI classification	on:	
Are climatic / hydrologic o	conditions on the	site typical for this	time of year?	Yes X	No	(If no, e	explain in Remark	s.)	
Are Vegetation	, Soil ,	or Hydrology	significantly	disturbed?	Are	"Normal Circ	umstances" prese	ent? Yes	X No
Are Vegetation	, Soil ,	or Hydrology	naturally pro	oblematic?	(If n	eeded, expla	in any answers in	Remarks.)	
SUMMARY OF FINE	DINGS - Atta	ch site map sl	nowing sam	pling poin	t locations	s, transect	ts, important	features, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is	the Sample	d Area			
Hydric Soil Present?		Yes	No X	-	ithin a Wetla		Yes	NoX	
Wetland Hydrology Pre	esent?	Yes	No X	_		Wetland Site			=
				-	,,				
Remarks: (Explain alte	rnative procedure	es here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators:								
Primary Indicators (min		nuired: check all tha	at apply)				Secondary Indica	ators (minimum of	wo required)
Surface Water (A1		juniou, cricon un une	Water-Stained	Leaves (B9)				I Cracks (B6)	ooquou/
High Water Table	•		Aquatic Fauna	` '				atterns (B10)	
Saturation (A3)	(/		Marl Deposits				Moss Trim L		
Water Marks (B1)	,		Hydrogen Sulf)			Water Table (C2)	
Sediment Deposit			Oxidized Rhizo			(C3)	Crayfish Bu		
Drift Deposits (B3)		-	Presence of R	•	-	(00)		/isible on Aerial Im	agery (C9)
Algal Mat or Crust	•		Recent Iron Re			3)		Stressed Plants (D	
Iron Deposits (B5)			Thin Muck Sur		iica oolis (oo	')		Position (D2)	')
Inundation Visible	•		Other (Explain	, ,			Shallow Aqu		
Sparsely Vegetate	-		Other (Explain	iii iteiliaiks)				aphic Relief (D4)	
Sparsely vegetate	su Concave Sun	ace (Do)					FAC-Neutra		
Field Observations:									
Surface Water Present	i? Yes	No X		s):					
Water Table Present?	Yes	NoX	_ ' `						
Saturation Present?	Yes	NoX	_ Depth (inche	s):	W	Vetland Hydr	ology Present?	Yes	No X
(includes capillary fring	je)								
Dosoribo Popordod Da	ata (etroam gauge	o monitoring well	acrial photos pr	ovious inspec	otions) if avai	ilable:			
Describe Recorded Da	ila (stream gauge	e, monitoring well, a	aeriai priotos, pri	evious inspec	ctions), ii avai	liable:			
Remarks:									

				Sampling Point:072-01U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	
. Acer saccharum / Sugar maple	45	Yes	FACU	Total Number of Dominant
2. Acer rubrum / Red maple	25	Yes	FAC	Species Across All Strata: 6 (B)
s.				
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 16.7 (A/B)
				Tild(Ale Obl., FAOW, OF FAO. 10.7 (FAD)
,				Prevalence Index worksheet:
·		Total Cov		Total % Cover of: Multiply by:
) " (OL LOUI (DI-L-1) 4E	70	_ = Total Cov	er	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15)	10	V	54011	FACW species 0 x 2 = 0
. Rosa multiflora / Multiflora rose, Multiflora rosa	10	Yes	FACU	FAC species 30 x 3 = 90
. Lonicera morrowii / Morrow's honeysuckle	5	Yes	FACU	· — — —
S. Fagus grandifolia / American beech	5	Yes	FACU	FACU species 100 x 4 = 400
k				UPL species 0 x 5 = 0
i				Column Totals: 130 (A) 490 (B)
3.				Prevalence Index = B/A = 3.77
· .		_		
· -	20	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ '0	Ci	1 - Rapid Test for Hydrophytic Vegetation
. Fraxinus americana / White ash	25	Vec	EACH	2 - Dominance Test is >50%
		Yes	FACU	3 - Prevalence Index ≤3.0¹
Rubus allegheniensis / Allegheny blackberry	5	No	FACU	4 - Morphological Adaptations (Provide supporting
3. Osmunda claytoniana / Interrupted fern	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Acer saccharum / Sugar maple	5	No	<u>FACU</u>	
i				¹Indicators of hydric soil and wetland hydrology must
i				
				be present, unless disturbed or problematic.
3.			-	Definitions of Vegetation Strata
·				Definitions of vegetation strata
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1.				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	40	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
·				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
j				height.
l.				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes NoX

SOIL Sampling Point: 072-01U

Depth	Matrix		Redox	x Features			ce of indicator				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-18	10 YR 34/4	95	7.5 YR 5/6	5	С	М	Loam				
								, <u> </u>			
			-								
								-			
	· -										
								-			
			-					-			
Гуре: C=Cor	ncentration, D=Depletion	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	tion: PL=P	ore Lining, N	л=Matrix.	
ydric Soil II			Daharahaa Dalaa	·· 0··-f (00		MI DA 440E			ematic Hydi		(OD)
Histosol			Polyvalue Belov					•) (LRR K, L		-
	pipedon (A2)		Thin Dark Surfa			149B)			dox (A16)		
Black His	• •		Loamy Mucky N		LRR K, L)				t or Peat (S		, L, R)
	en Sulfide (A4)		Loamy Gleyed I					•	7) (LRR K,	-	
	d Layers (A5)		Depleted Matrix						Surface (S	, ,	, L)
	d Below Dark Surface (A	A11)	Redox Dark Sui						ce (S9) (LR		
_	ark Surface (A12)		Depleted Dark S					-	Masses (F1		
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	nont Flood	olain Soils (F	19) (MLR/	A 149B)
Sandy G	Sleyed Matrix (S4)						Mesi	Spodic (T	46) (MLRA	144A, 145	5, 149B)
Sandy R	Redox (S5)						Red I	Parent Mate	erial (F21)		
Stripped	Matrix (S6)						Very	Shallow Da	rk Surface (TF12)	
Dark Sui	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain ir	Remarks)		
	hydrophytic vegetation	and watland	d bydrology must bo p	recent unles	a disturbed	or problems	otio				
		and welland	a flydiology flidst be p	resent, unies	s disturbed	or problem	auc.				
Restrictive L	ayer (if observed):										
Restrictive L	ayer (if observed):										
Restrictive L	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
testrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
testrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
testrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
testrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Restrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
testrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive L Type: Depth (in	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X

Project/Site:	19020 - South Rip	ley	City/County:	Chautau	qua County	Sampling Date:	07/28/2020
Applicant/Owner:		•	_ , , ,,,		State: New York		072-01W
Investigator(s):	SPF HK		Section. Tow	nship, Range:		wn of Ripley	
Landform (hillslope, terrace		seep Local	_	convex, none):			(%): 10
Subregion (LRR or MLRA)							
Soil Map Unit Name:		Erie silt loar			NWI classificati		PEM
Are climatic / hydrologic co	onditions on the site typica			No (I	f no, explain in Remark		
Are Vegetation,	,,	•		`	l Circumstances" prese	•	K No
	Soil, or Hydrold				explain any answers in		
SUMMARY OF FIND				•	•	•	
				the Sampled Area	portunit	100101100, 0101	
Hydrophytic Vegetation Hydric Soil Present?	Present? Yes Yes			ithin a Wetland?	Voo V	No	
,					Yes X	No 072	_
Wetland Hydrology Pres	sent? Yes	X No	"	yes, optional Wetland	u Site ID.	072	
Remarks: (Explain alterr Old logging	native procedures here or g road	in a separate report.)					
HYDROLOGY							
Wetland Hydrology Ind	licators:						
, ,,	mum of one required; che	ck all that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)		X Water-Stain	ed Leaves (B9)			l Cracks (B6)	4
High Water Table (A		Aquatic Fau	` ,			atterns (B10)	
X Saturation (A3)	,	Marl Deposi	` '		Moss Trim		
Water Marks (B1)			ulfide Odor (C1))		Water Table (C2)	
Sediment Deposits	(B2)	Oxidized Rh	izospheres on l	Living Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of	Reduced Iron (C4)	Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Crust ((B4)	Recent Iron	Reduction in Ti	lled Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck S	Surface (C7)		Geomorphi	c Position (D2)	
Inundation Visible of	on Aerial Imagery (B7)	Other (Expla	ain in Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	d Concave Surface (B8)				Microtopog	raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes N	o X Depth (incl	ues).				
Water Table Present?		Depth (incl	-				
Saturation Present?	Yes X N	' `	· —	Wetland	Hydrology Present?	Yes X	No
(includes capillary fringe		Bepti (inoi	103). <u> </u>		riyarology r resent.	100 <u>X</u>	
(o.uuoo oupu.)go							
Describe Recorded Data	a (stream gauge, monitorii	ng well, aerial photos,	previous inspec	ctions), if available:			
Remarks:							
ixemarks.							
<u> </u>							

0	Dominant Species? = Total Cove		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
over	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
over	Species?	Status	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
over	Species?	Status	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0			Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0			Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0			That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0			That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet:
0	- <u></u>		Prevalence Index worksheet:
0		er	
	= Total Cove	 er	
	= Total Cove	er	
			OBL species 0 x 1 = 0
			FACW species 80 x 2 = 160
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: <u>80</u> (A) <u>160</u> (B)
			Prevalence Index = B/A = 2.0
	-		Iliadaa ahadi. Va aadadi. aa la di adaa aa
0	= Total Cove	er	Hydrophytic Vegetation Indicators:
	•		X 1 - Rapid Test for Hydrophytic Vegetation
60	Yes	FACW	X 2 - Dominance Test is >50%
20	Yes		X 3 - Prevalence Index ≤3.01
			4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
	. ———		be present, unless disturbed or problematic.
	- ———	· ———	Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	<u> </u>		breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
80	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	- —		Woody vines - All woody vines greater than 3.28 ft in height.
	- ———		neight.
	- Total Cov		Hydrophytic
	= Total Cove	5 1	
			Vegetation
			Present? Yes No
	0 60 20	0 = Total Cove 60 Yes 20 Yes 80 = Total Cove 0 = Total Cove	0 = Total Cover 60

SOIL Sampling Point: 072-01W

Depth	Matrix		Redox	k Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0 - 6	10YR 4/2	85	10 YR 5/8	20	С	М	Loam	
6 -18	10 YR 4/1	60	7.5 YR 4/4	40	С	М	Loam	
						,		
						,		
				-				
ype: C=Cor	ncentration, D=Depletion	n, RM=Redi	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
ydric Soil li	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (S) /I DD D I	MI DA 1401		Muck (A10) (LRR K, L, MLRA 149B)
	` '						· —	
	pipedon (A2)		Thin Dark Surfa			1490)		Prairie Redox (A16) (LRR K, L, R)
_ Black His			Loamy Mucky M		LKK K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) Layers (A5)		Loamy Gleyed N X Depleted Matrix					Surface (S7) (LRR K, L)
	• • •	\	'	. ,				alue Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A	ATT)	Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
_	flucky Mineral (S1)		Redox Depressi	ions (F8)				nont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Sui	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain in Remarks)
Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problem	atic.	
	, , , , , , , ,							
	<i></i>							
	ayer (if observed):							
Туре:							Under Oall B	
							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Туре:							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pi	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No
Type: Depth (in							Hydric Soil Pr	resent? Yes X No

Project/Site:	19020	- South Ripley		City/Coun	tv:	Chautauqua	County	Sampling Date:	07/27/2020
Applicant/Owner:			ectGen LLC	,		•	ate: New York		073-1U
Investigator(s):		JAM SPF		Section. T	ownship, Rar			wn of Ripley	
Landform (hillslope, terr					ve, convex, n	`	Convex	Slope	e (%): 3-10
Subregion (LRR or MLR			Lat:	•	0436544	Long:	-79.718925	· ·	` '
Soil Map Unit Name:	,		angford silt loai				NWI classification	on:	
Are climatic / hydrologic	conditions on the				. No	(If no,	_ explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed	? A		cumstances" prese		X No
Are Vegetation						If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	_					ns. transec	ts. important	features, etc.	
Hydrophytic Vegetation		Yes			Is the Samp		<u> </u>	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	JIT TOSCITE	Yes	No X	-	within a We		Yes	No X	
Wetland Hydrology P	resent?	Yes	No X	-		nal Wetland Site		110	_
vveilaria riyarology r		100	110 <u>X</u>	-	n yes, option	iai vvetiana ote			
Remarks: (Explain alt Upland _I	ternative procedu point for wetland		irate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one re	quired; check all that	t apply)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A	A1)		Water-Stained	Leaves (E	39)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)	<u> </u>	Aquatic Fauna	(B13)			Drainage P	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposits	(B15)			Moss Trim I	_ines (B16)	
Water Marks (B1	1)		Hydrogen Sulf	ide Odor (C1)		Dry-Seasor	Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhize	ospheres o	on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)		Presence of R	educed Iro	on (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Cru	st (B4)		Recent Iron Re	eduction in	n Tilled Soils (C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B	5)		Thin Muck Sur	face (C7)			Geomorphic	Position (D2)	
Inundation Visible	le on Aerial Image	ery (B7)	Other (Explain	in Remarl	ks)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ated Concave Sur	face (B8)					Microtopogi	raphic Relief (D4)	
							FAC-Neutra	Il Test (D5)	
Field Observations:									
Surface Water Preser		No X	Depth (inche	s).					
Water Table Present?		No X	•						
Saturation Present?	Yes		Depth (inche	· —		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frin		NO	Boptii (mono	·		violana nya			<u> </u>
(morados capinar y mi									
Describe Recorded D	ata (stream gaug	je, monitoring well, a	erial photos, pr	evious ins	pections), if a	vailable:			
Remarks:									

6.	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 1 (A)	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	/EGETATION - Use scientific names of plants.				Sampling Point: 073-1U
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 1 (A)	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 1 (A)					Dominance Test worksheet:
National Content	Absolute Dominant Indicator That Are OBL FACW, or FAC: 1	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1 (A)					
Total Number of Dominant Species Status Species Status Species Status Species Across All Strata: 4 (B) Species	Tree Stratum (Plot size: 30)	Tree Stratum (Plot size: 30)		Absolute	Dominant	Indicator	·
1.	1. Taugu canadensis / Eastern hemlock	1. Suga canadensis / Eastern hemiock 90 Yes FACU 2. Betula alleghaniensis / Yellow birch 5 No FAC	Troo Stratum (Plot size: 30)				That Are OBE, I AGW, OF I AG (A)
2. Betula alleghaniensis / Yellow birch 5 No FAC Species Across All Strata: 4 (B) 3	Setula alleghaniensis / Yellow birch 5 No FAC	2. Betula alleghaniensis / Yellow birch 5 No FAC Species Across All Strata: 4 (B) 3. 3			- 		T. IN I GO
Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B)	3.	3.	 				
Percent of Dominant Species That Are OBL, FACW, or FAC:	Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 (A/B)		5	No	FAC	Species Across All Strata: 4 (B)
That Are OBL, FACW, or FAC: 25.0 (A/B)	That Are OBL, FACW, or FAC:	That Are OBL, FACW, or FAC:	3				
Prevalence Index worksheet: Total % Cover 0f: Multiply by:	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0	Providence Index worksheet: Total % Cover of:	4				Percent of Dominant Species
Prevalence Index worksheet: Total % Cover 0f: Multiply by:	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0	Providence Index worksheet: Total % Cover of:	5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
Prevalence Index worksheet:	Prevalence Index worksheet: Total % Cover of Multiply by: Total %	Prevalence Index worksheet: Total % Cover of: Multiply by:					
Total Cover	Sapling/Shrub Stratum (Plot size: 15)	Sapling/Shrub Stratum (Plot size: 15 15 15 15 15 15 15 15	7				Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size: 15)	Sapiling/Shrub Stratum (Plot size: 15)	Sapling/Shrub Stratum			= Total Cov	or .	Total % Cover of: Multiply by:
FACW species 0	FACW species 0	FACW species 0	Capling/Charle Charters (Dlat size) 45		10(a) 000	Ci	
2.	FAC species 10	2.	· · · · · · · · · · · · · · · · · · ·				· — — — — — — — — — — — — — — — — — — —
2.	2.	2.	1		_		
3.	3.	3.	2				·
4.	4.	4.	2				
5. Column Totals: 110	5. Column Totals: 110 (A) 430 (B) Prevalence Index = B/A = 3.91	5. Column Totals: 110 (A) 430 (B) Prevalence Index = B/A	4				UPL species 0 x 5 = 0
6. 7.	Prevalence Index = B/A = 3.91	Prevalence Index = B/A = 3.91	_				Column Totals:110 (A)430 (B)
Tree - Woody Vine Stratum (Plot size:	7	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index <3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting 1 - Rapid Test for Hydrophytic Vegetation 2 - Rapid	•				Prevalence Index = B/A = 3.91
Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)	Herb Stratum (Plot size: 5)	7				
Herb Stratum (Plot size: 5) 1. Prunus serotina / Black cherry 2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4. Seroul of the size is 500% 3. Acer rubrum / Red maple 5. Yes FACU 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 10. Seroul of the size is 50% 11. Seroul of the size is 50% 12. Seroul of the size is 50% 3. Prevalence Index ≤3.0¹ 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft iall. Woody vines - All woody vines greater than 3.28 ft in height.	Herb Stratum (Plot size: 5) 1. Prunus serotina / Black cherry 5 Yes FACU 2. Rubus idaeus / Common red raspberry 5 Yes FACU 3. Acer rubrum / Red maple 5 Yes FAC 4.	Herb Stratum (Plot size: 5	1.		- 		Hydrophytic Vegetation Indicators:
Perro Stratum (Plot size: 5 5 1. Prunus serotina / Black cherry 5 Yes FACU 2 - Dominance Test is >50% 3 - Prevalence Index ≤ 3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 1 -	Perb Stratum Prot size: 5	Period Stratum Professize: 5 Signature Professize: 5 Signature Professize: 5 Pr		0	_ = lotal Cov	er	1 - Rapid Test for Hydrophytic Vegetation
1. Prunus serotina / Black cherry 2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4. 5. 6. 7. 8. 9. 10. 11. 12. 12. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	1. Prunus serotina / Black cherry 2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4. 5. Yes FACU 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 1. If a = Total Cover Woody Vine Stratum (Plot size: 30) 1. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O	1. Prunus serofina / Black cherry 2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4. 5. Yes FACU 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata 10.	· ·				
2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4. Syes FAC 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation 1 in the problematic Hyd	2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 5 Yes FAC 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	2. Rubus idaeus / Common red raspberry 3. Acer rubrum / Red maple 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1	Prunus serotina / Black cherry	5	Yes	FACU	
A. Acer rubrum / Red maple 5 Yes FAC Problematic Hydrophytic Vegetation¹ (Explain) 5.	3. Acer rubrum / Red maple 4	3. Acer rubrum / Red maple 4	2. Rubus idaeus / Common red raspberry	5	Yes	FACU	
4	4.	4. 5. 6. 7. 8. 9. 10. 11. 12. 15. 4 Tree - Woody Plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1m) tall. 2. 30. 1. 4. 10. 11. 12. 15. 15. 16. 16. 17. 18. 19. 19. 19. 19. 10. 10. 11. 11. 12. 15. 15. 16. 16. 17. 18. 19. 19. 19. 19. 19. 10. 10. 11. 10. 11. 11. 12. 13. 15. 15. 16. 16. 16. 17. 16. 17. 16. 17. 16. 17. 16. 17. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	3. Acer rubrum / Red maple	5	Yes	FAC	1 -
5.	5.	5.	4.				Problematic Hydrophytic Vegetation' (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	6.	6.	_				
be present, unless disturbed or problematic. Be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	be present, unless disturbed or problematic. B	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes NoX	6				¹ Indicators of hydric soil and wetland hydrology must
8	8	8.		· ·	<u> </u>	<u> </u>	be present, unless disturbed or problematic.
9.	9. 10. 11. 12. Woody Vine Stratum (Plot size:	9.					
9.	9. 10. 11. 12. Woody Vine Stratum (Plot size:	9.	8				Definitions of Vegetation Strata
11	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: The provided Hydrophytic vegetation and the present? The provided Hydrophytic vegetation and the present has a presen	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop	^				
11	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Description: The provided Hydrophytic vegetation are present? The provided Hydrophytic vegetation are present.	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop	10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
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:	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:	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:	11.			- ' '	
Woody Vine Stratum (Plot size: 30) 1.	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 15	12.				
Woody Vine Stratum (Plot size: 30) 1	Woody Vine Stratum (Plot size: 30) 1	Woody Vine Stratum (Plot size: 30) 1			= Total Cov	er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	1	1	Woody Vino Stratum (Plot size: 30)		_ 10101 001	OI .	
2	2	2					, ,,,
3 height. 4 0 = Total Cover Hydrophytic Vegetation	3	3					size, and woody plants less than 3.28 ft tall.
4. O = Total Cover Hydrophytic Vegetation	4	4	2				Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Vegetation		0 = Total Cover	3		_		height.
Vegetation	Vegetation Present? Yes NoX	Vegetation Present? Yes NoX	4				
	Present? Yes No X	Present? Yes No X		0	= Total Cov	er	Hydrophytic
	Present? Yes No X	Present? Yes No X			_		Vegetation
							_
		Remarks: (Explain alternative procedures here or in a separate report.)					Tresent: TosNoX
(a.p.a allo matro processino noto di ma doparato reporti,							

Depth	Matrix		Redox	Features			e of indicator				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ L	OC ²	Texture		Remar	ks	
0-1	5YR 2.5/1	100					Silt loam				
1-3	10YR 3/1	100	-				Loam				
3-18	10YR 4/4	100		- 			Silt loam				
			-	- ——							
											
	_										
ype: C=Cor	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Mask	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, N	л=Matrix.	
dric Soil I	ndicators:						Indicators	for Proble	ematic Hyd	ric Soils³:	
Histosol			Polyvalue Belov	Surface (S	B) (LRR R,MLF	A 149B	3) 2 cm	Muck (A10) (LRR K, L	, MLRA 149	9B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA 149	B)	Coas	t Prairie Re	edox (A16)	(LRR K, L,	R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1)	LRR K, L)		5 cm	Mucky Pea	at or Peat (S	3) (LRR K ,	L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K,	L)	
_	d Layers (A5)		Depleted Matrix						Surface (S		L)
_	d Below Dark Surface (A11)	Redox Dark Sur						ce (S9) (LR		
	ark Surface (A12)		Depleted Dark S					-	Masses (F		
_	fucky Mineral (S1)		Redox Depressi	ons (F8)					olain Soils (F		
_	Gleyed Matrix (S4)								A6) (MLRA	144A, 145	, 149B)
	ledox (S5) Matrix (S6)							Parent Mate	eriai (F21) irk Surface (TE12)	
	rface (S7) (LRR R, MI	RΔ 149R)							n Remarks)	11 12)	
	ridoo (e/) (Ertititi, iii							(Explair ii	r rtornarito)		
ndicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed or p	roblema	atic.				
estrictive L	ayer (if observed):										
Type:							Hydric Soil P	resent?	Yes	No	Х
Type: Depth (in											
Depth (in											
Depth (in											
Depth (in											
Depth (in											
Depth (in											
Depth (in											
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Project/Site:	19020 - South Ripley	(City/County:	Chautauqua	County	Sampling Date:	07/27/2020
Applicant/Owner:	. ,	ConnectGen LLC			tate: New York	-	073-1W
Investigator(s):	JAM SPF	,	Section, Township, F			vn of Ripley	
Landform (hillslope, terrac	ce, etc): Bowl shaped der	pression Local reli			Concave		(%): 3-10
Subregion (LRR or MLRA				Long:	-79.7190870		• •
- ·	· -				NWI classification		PEM
· · · · · · · · · · · · · · · · · · ·	conditions on the site typical fo			lo (If no	— , explain in Remark	s.)	
, ,	, Soil , or Hydrology	•	disturbed?	Are "Normal Cir	rcumstances" prese	nt? Yes X	(No
	, Soil , or Hydrology				lain any answers in		
	DINGS - Attach site ma				•	•	
					oto, important		
Hydrophytic Vegetation		X No No		mpled Area	Van V	No	
Hydric Soil Present?	Yes			Wetland?	Yes X		_
Wetland Hydrology Pre	esent? Yes	X No	ii yes, op	lional Welland Sil	te ID:	PEM wetland 073	-
Remarks: (Explain alte	rnative procedures here or in a	a separate report.)					
, , , , , , , , , , , , , , , , , , ,	,	,					
LIVEROLOCY							
HYDROLOGY							
Wetland Hydrology In							
	nimum of one required; check a					tors (minimum of to	wo required)
Surface Water (A1	•	Water-Stained	` '			Cracks (B6)	
High Water Table	(A2)	Aquatic Fauna				itterns (B10)	
Saturation (A3)		Marl Deposits (•		Moss Trim L	` '	
Water Marks (B1)		Hydrogen Sulfi				Water Table (C2)	
Sediment Deposits	• •	X Oxidized Rhizo	•	Roots (C3)	Crayfish Bui		
Drift Deposits (B3)			educed Iron (C4)			isible on Aerial Ima	
Algal Mat or Crust			duction in Tilled Soi	ls (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surf			X Geomorphic		
	on Aerial Imagery (B7)	Other (Explain	in Remarks)		Shallow Aqu	iitard (D3)	
Sparsely Vegetate	ed Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	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 Hyd	drology Present?	Yes X	No
(includes capillary fring		Z Deptil (illelies	·)·	Wettand Hye	arology i resent:	103 <u>X</u>	
(includes capillary ining	<u> </u>						
Describe Recorded Da	ta (stream gauge, monitoring v	well, aerial photos, pre	evious inspections),	if available:			
_							
Remarks:							

Free Stratum (Plot size: 30) 1.				Dominance Test worksheet:
l				Dominance lest worksneet:
l				Number of Dominant Species
l	Absolute	Dominant	Indicator	•
l	%Cover	Species?	Status	That Are OBL, FACW, or FAC: 3 (A)
·	%Cover	Species?		Total Niverban of Department
<u> </u>	·		<i>Fraxinus</i>	Total Number of Dominant
		<u> </u>		Species Across All Strata: 3 (B)
3	. —			
ł				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
S				
7				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
I. Fraxinus pennsylvanica / Green ash	5	Yes	FACW	FACW species 105 x 2 = 210
,			171011	FAC species 0 x 3 = 0
2				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
ł	. —			Column Totals: 105 (A) 210 (B)
o				` , ` ,
S				Prevalence Index = B/A = 2.0
7			<u> </u>	Hydrophytic Vegetation Indicators:
	5	= Total Cov	er	
Herb Stratum (Plot size: 5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
I. Onoclea sensibilis / Sensitive fern	80	Yes	FACW	X 2 - Dominance Test is >50%
2. Impatiens capensis / Spotted jewelweed	20	Yes	FACW	X 3 - Prevalence Index ≤3.01
3.				4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
-				
5	·			¹Indicators of hydric soil and wetland hydrology must
Š				be present, unless disturbed or problematic.
7				
3				Definitions of Vegetation Strata
9				
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Noody Vine Stratum (Plot size: 30)		_		
l.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		_		
···	•			Woody vines - All woody vines greater than 3.28 ft in
·				height.
ł				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No

 SOIL
 Sampling Point: ____073-1W

Depth	Matrix		eeded to document the Redox	k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 3/1	90	7.5YR 4/6	10	С	PL	Loam			
6-20	10YR 5/2	80	7.5YR 4/6	20	С	М	Loam			
Type: C=Con	centration, D=Depletio	on, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=Po	ore Lining, M=Ma	trix.
lydric Soil Ir	dicators:						Indicators	s for Proble	matic Hydric So	oils³:
Histosol			Polyvalue Belov	v Surface (Sa	3) (LRR R ,	MLRA 149E			(LRR K, L, MLI	
	ipedon (A2)		Thin Dark Surfa						dox (A16) (LRR	-
Black His			Loamy Mucky M			,			t or Peat (S3) (L	
	n Sulfide (A4)		Loamy Gleyed N		, ,				7) (LRR K, L)	,
	Layers (A5)		X Depleted Matrix					-	Surface (S8) (L	RR K, L)
	Below Dark Surface (A	A11)	X Redox Dark Sur						e (S9) (LRR K,	· •
	rk Surface (A12)	•	Depleted Dark S	Surface (F7)					Masses (F12)	
Sandy M	ucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	mont Floodp	lain Soils (F19) (MLRA 149B)
Sandy G	eyed Matrix (S4)								A6) (MLRA 144	
Sandy Re	edox (S5)						Red	Parent Mate	erial (F21)	
Stripped	Matrix (S6)						Very	Shallow Dai	rk Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	LRA 149B)					Othe	r (Explain in	Remarks)	
Bladicators of	avdranhytia vagatatian	and watten	d bydrology must be n							
		and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive La	nydrophytic vegetation ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem			V V	N-
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic. Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem:		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem.		resent?	Yes X	No

Project/Site:	19020 -	South Ripley	(City/Count	tv:	Chautauqua (County	Sampling Date:	07/28/2020
Applicant/Owner:			ectGen LLC	,	·		ate: New York		074-1U
Investigator(s):		SPF, HK		Section. To	ownship, Ran			wn of Ripley	
Landform (hillslope, terr					ve, convex, n	`	Convex	Slope	: (%): 10
Subregion (LRR or MLF		•	 Lat:		9806822	Long:	-79.709240		` '
Soil Map Unit Name:	, 		nadakoin silt loa				NWI classification		
Are climatic / hydrologic	conditions on the	site typical for this	time of year? \	Yes X	No	(If no,	– explain in Remark	(s.)	
Are Vegetation	, Soil ,	or Hydrology	significantly	disturbed?	? A		cumstances" prese		X No
Are Vegetation						f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN						ns. transec	ts. important	features, etc.	
Hydrophytic Vegetation		Yes X			Is the Samp		, p		
Hydric Soil Present?		Yes	No		within a We		Vec	No X	
Wetland Hydrology P		Yes	No X			al Wetland Site	Yes	NOX_	_
Welland Hydrology P	Tesent:				ii yes, option	ai Welland Sile	- ID		
Remarks: (Explain al Along of	ternative procedure ld logging road	es here or in a sepa	arate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m		quired; check all tha	t apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	A1)		Water-Stained	Leaves (B	39)			l Cracks (B6)	
High Water Tabl	e (A2)	_	Aquatic Fauna	(B13)			Drainage P	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposits (B15)			Moss Trim I	_ines (B16)	
Water Marks (B	1)		Hydrogen Sulfic	de Odor (0	C1)		Dry-Seasor	Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhizo	spheres o	n Living Roof	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	33)		Presence of Re	educed Iro	n (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Cru	ıst (B4)		Recent Iron Re	duction in	Tilled Soils (C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B	5)		Thin Muck Surf	face (C7)			Geomorphic	Position (D2)	
Inundation Visib	le on Aerial Image	ry (B7)	Other (Explain	in Remark	(S)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ated Concave Surfa	ace (B8)					Microtopogi	raphic Relief (D4)	
							FAC-Neutra	I Test (D5)	
Field Observations:									
Surface Water Prese		No X	Donth (inches						
Water Table Present?		NoX	Depth (inches Depth (inches						
Saturation Present?	Yes	No X	Depth (inches	· —		Wotland Hyd	rology Present?	Yes	No X
(includes capillary frin	•	NOX	_ Deptil (iliches	o)		welland nyu	rology Fresent?	165	NO
(includes capillary iiii	ige)								
Describe Recorded D	Data (stream gauge	e, monitoring well, a	erial photos, pre	evious insp	pections), if a	vailable:			
		_		•	•				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 074-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	50	Yes	FAC	Total Number of Dominant
2. Rhus typhina / Staghorn sumac	10	No	FACU	Species Across All Strata: 4 (B)
3. Fraxinus americana / White ash	5	No	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 75.0 (A/B)
6.				
7				Prevalence Index worksheet:
	65	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
Lonicera morrowii / Morrow's honeysuckle	5	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 70 x 3 = 210
3				FACU species 20 x 4 = 80
4				UPL species 0 x 5 = 0
5				Column Totals: 90 (A) 290 (B)
6				Prevalence Index = B/A = 3.22
7	_	_		Hydrophytic Vegetation Indicators:
	5	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Urtica dioica / Stinging nettle	10		FAC	3 - Prevalence Index ≤3.0¹
2				4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				robicination yarophytic vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, amose distances of presiding as.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	10	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1. Vitis riparia / River-bank grape	10	Yes	<u>FAC</u>	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	10	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separat	e report)			
Tremains. (Explain alternative procedures here of in a separat	с тероп.)			

 SOIL
 Sampling Point:
 074-1U

Depth	ription: (Describe to th Matrix			x Features				-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	(S	
0-6	10YR 3/4	100					Silt loam				
				_							
				_							
	· 			_							
Type: C=Cor	ncentration, D=Depletior	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M	I=Matrix.	
hadria Cail I	u di actava i						lu di aata na	fau Duahl		ia Caila3.	
Hydric Soil I			D D.	0 ((0)		D. 4.405			ematic Hydr		σ,
Histosol			Polyvalue Belo					•) (LRR K, L		•
	oipedon (A2)		Thin Dark Surfa			49B)			dox (A16) (
	stic (A3)		Loamy Mucky I		LRR K, L)				t or Peat (S		L, R)
	en Sulfide (A4)		Loamy Gleyed						7) (LRR K,	-	
	d Layers (A5)		Depleted Matrix						Surface (S8		L)
	d Below Dark Surface (A	(11)	Redox Dark Su						ce (S9) (LR		
	ark Surface (A12)		Depleted Dark					•	Masses (F1	,	
Sandy M	Mucky Mineral (S1)		Redox Depress	sions (F8)			Piedm	ont Flood	olain Soils (F	19) (MLRA	149B)
	Gleyed Matrix (S4)								46) (MLRA	144A, 145,	149B)
Sandy R	Redox (S5)								erial (F21)		
Stripped	l Matrix (S6)						Very S	hallow Da	rk Surface (ΓF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other	(Explain ir	Remarks)		
Indicators of	hydrophytic vegetation	and wetland	nydrology must be p	oresent, unies	s disturbed or	problema	atic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Pro	esent?	Yes	No _	X
Remarks:											
	Root compaction										
	•										

Project/Site:	19020	- South Ripley		City/Coun	ıtv:	Chautauqua	County	Sampling Date:	07/28/2020
Applicant/Owner:			onnectGen LLC	,·		•	ate: New York		074-1W
Investigator(s):		SPF HK		Section, T	Township, Ran			wn of Ripley	
Landform (hillslope, ter	race. etc):	Bowl	Local re		ive, convex, n		Concave	Slope	e (%): 5
Subregion (LRR or MLI			Lat:	•	9794092	Long:	-79.709114		` '
Soil Map Unit Name:	, 		Erie silt loam				NWI classification		PEM
Are climatic / hydrologic	c conditions on th	ne site typical for th	nis time of year?	Yes X	(No	(If no,	– explain in Remark	(s.)	
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		roblematic?	? (I	f needed, expl	ain any answers in	Remarks.)	
SUMMARY OF FI						· ·	•	•	
Hydrophytic Vegetati		Yes X			Is the Samp		,p =		
Hydric Soil Present?		Yes X		-	within a We		Yes X	No	
Wetland Hydrology F		Yes X		-		al Wetland Site		NO 074	_
vvetiana riyarology r	resent:	163	110	_	ii yes, option	ai Welland Sil	е іБ.	074	
Remarks: (Explain al	Iternative procedu	ures here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology									
Primary Indicators (n	ninimum of one re	equired; check all t					Secondary Indica	ators (minimum of	two required)
Surface Water (` '	_	Water-Staine	•	39)			l Cracks (B6)	
High Water Tab	, ,	_	Aquatic Faun					atterns (B10)	
Saturation (A3)		_	Marl Deposits				Moss Trim I	` '	
Water Marks (B	•	-	Hydrogen Su					Water Table (C2)	
Sediment Depo			X Oxidized Rhiz		_	ts (C3)	Crayfish Bu		
Drift Deposits (E	•	_	Presence of F					/isible on Aerial Im	
Algal Mat or Cru		_			n Tilled Soils (C6)		Stressed Plants (D	1)
Iron Deposits (E	•	(D7)	Thin Muck Su	, ,			X Geomorphic		
	ole on Aerial Imag	_	Other (Explai	n in Remar	KS)		Shallow Aq		
Sparsely vegeta	ated Concave Sui	пасе (В8)						raphic Relief (D4)	
							X FAC-Neutra	il lest (D5)	
Field Observations	:								
Surface Water Prese	ent? Yes	s No X	C Depth (inch	es):					
Water Table Present	? Yes	s No X	Depth (inch	es):					
Saturation Present?	Yes	s No X	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fri	nge)								
Describe Recorded [Data (stream gau	ge, monitoring wel	I, aerial photos, p	revious ins	spections), if a	vailable:			
Domonico									
Remarks:									

	ientific name					
						Dominance Test worksheet:
						Number of Dominant Species
			Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
ree Stratum (Plot size:	30)	%Cover	Species?	Status	
						Total Number of Dominant
·						Species Across All Strata: 1 (B)
·						
•						Percent of Dominant Species
						That Are OBL, FACW, or FAC: 100.0 (A/B)
						Prevalence Index worksheet:
-			0	= Total Cove		Total % Cover of: Multiply by:
apling/Shrub Stratum (F	31-1-01-01	45		_ = 10tal Cov	er	OBL species 0 x 1 = 0
· · · · · · · · · · · · · · · · · · ·	Plot size:					FACW species 97 x 2 = 194
						FAC species 0 x 3 = 0
					_	FACU species 0 x 4 = 0
						UPL species 0 x 5 = 0
						Column Totals: 97 (A) 194 (B)
						Prevalence Index = B/A = 2.0
				_		
			0	= Total Cove	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size:	5)	-		J.	X 1 - Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea / R		/ s. Reed canary gras	95	Yes	FACW	X 2 - Dominance Test is >50%
Onoclea sensibilis / Sens			2	No	FACW	X 3 - Prevalence Index ≤3.0¹
			-	-		4 - Morphological Adaptations (Provide supporting
						Problematic Hydrophytic Vegetation¹ (Explain)
						4
						¹Indicators of hydric soil and wetland hydrology must
						be present, unless disturbed or problematic.
						Definitions of Vegetation Strata
				_		200000000000000000000000000000000000000
)						Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
·						breast height (DBH), regardless of height.
						Sapling/shrub - Woody plants less than 3 in. DBH and
				_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plo	ot size:	30)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
						Woody vines - All woody vines greater than 3.28 ft in
						height.
			0	= Total Cove	er	Hydrophytic
						Vegetation
						Present? Yes X No

 SOIL
 Sampling Point: ____074-1W

Depth	ription: (Describe to th Matrix	<u> </u>		r Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 3/2	75	7.5YR 5/6	25	С	М	Loam			
		,								
	-									
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ıced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=M	atrix.
Hydric Soil I									ematic Hydric S	
Histosol	` '		Polyvalue Belov) (LRR K, L, ML	•
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LRI	
	istic (A3)		Loamy Mucky M		LRR K, L)				at or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					•	7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						Surface (S8) (
Depleted	d Below Dark Surface (A	\11)	X Redox Dark Sur				Thin	Dark Surfa	ce (S9) (LRR K	., L)
	ark Surface (A12)		Depleted Dark S					-	Masses (F12)	
Sandy N	Aucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	mont Flood	plain Soils (F19)	(MLRA 149B)
	Sleyed Matrix (S4)								A6) (MLRA 14 4	4A, 145, 149B)
	Redox (S5)							Parent Mat		
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Othe	r (Explain ir	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Davis and a s										
Remarks:										

Project/Site:	19020	0 - South Ripley	C	ity/County:	Chautauqua	County	Sampling Date:	07/29/2020
Applicant/Owner:			nnectGen LLC			State: New York		075-1U
Investigator(s):		SPF HK		ection, Township,	-		wn of Ripley	
Landform (hillslope, terr	race. etc):			f (concave, conve		None	Slope	(%): 15
Subregion (LRR or MLR			Lat:	•				` '
Soil Map Unit Name:	,		silt loam, 8 to 15 p			NWI classification	_	
Are climatic / hydrologic					No (If no	— o, explain in Remark	(s.)	
Are Vegetation			•			ircumstances" prese	•	X No
		, or Hydrology		lematic?	(If needed, exp	lain any answers in		
SUMMARY OF FIN	_					•	•	
Hydrophytic Vegetation		Yes	No X		ampled Area		, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	on resent:	Yes			Wetland?	Yes	NoX	
Wetland Hydrology P	resent?	Yes			ptional Wetland Si			_
Trottana riyarology r				,00, 0	puonar vvoudira or			
Remarks: (Explain alt	ternative proced	dures here or in a se	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (m		roquirod: abook all th	act apply)			Socondary India	ators (minimum of t	wo required)
Surface Water (A		required, crieck air ti	Water-Stained L	eaves (B0)			l Cracks (B6)	.wo required)
High Water Table	,	_	_ Aquatic Fauna (` ,			atterns (B10)	
Saturation (A3)	C (AZ)	_	Marl Deposits (E	•		Moss Trim I		
Water Marks (B1	1)	_	Hydrogen Sulfid	•			Water Table (C2)	
Sediment Depos	,	_	_	pheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (B		_	Presence of Rec		110010 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•	_	_	uction in Tilled So	oils (C6)		Stressed Plants (D1	
Iron Deposits (B		_	Thin Muck Surfa		5110 (00)		Position (D2)	• /
Inundation Visible	•	maery (B7)	Other (Explain in	` '		Shallow Aq		
Sparsely Vegeta							raphic Relief (D4)	
						FAC-Neutra		
						<u>—</u>		
Field Observations:								
Surface Water Preser		es No X		-	-			
Water Table Present?		es No X			-			
Saturation Present?	Ye	es NoX	Depth (inches)	:	_ Wetland Hy	drology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D)ata (stream gai	uge monitoring well	aerial photos, prev	vious inspections	if available:			
20001.001.0001.000	ata (ottoani gat	ago,ogo	, acriai priotoc, pro		,			
Remarks:								
1								

		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 0 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
For Total Cover	FACU FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
For Total Cover	FACU FACU	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: 0 0.0 (A/B) Prevalence Index worksheet: 0 0.0 (A/B) OBL species 0 0 0.0 0.0 FACW species 0 0 0.0 0.0 0.0 0.0 FACU species 0 0 0.0 </td
For Total Cover	FACU FACU	Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Total Cover Total Cover Yes Yes	FACU	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Total Cover	FACU	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Total Cover	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Total Cover	FACU	That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Total Cover	FACU	That Are OBL, FACW, or FAC: 0.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Total Cover	FACU	Total % Cover of:
Total Cover	FACU	Total % Cover of:
- Total Cover Yes Yes	FACU	Total % Cover of:
- Total Cover Yes Yes	FACU	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	FAC species 0 x 3 = 0 FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	UPL species 0 x 5 = 0 Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	Column Totals: 100 (A) 400 (B) Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Yes Yes	FACU	2 - Dominance Test is >50%
Yes		
Yes		
		3 - Prevalence Index ≤3.0¹
		4 - Morphological Adaptations (Provide supporting
		Problematic Hydrophytic Vegetation¹ (Explain)
		¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata
		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
		breast height (DBH), regardless of height.
Total Cava		Sapling/shrub - Woody plants less than 3 in. DBH and
· IUIAI COVEI		greater than or equal to 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless of
		size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
		height.
T-4-1 O		Undrawhydia
: Iotal Covel		Hydrophytic
		Vegetation
		Present? Yes No X
	Total Cover	Total Cover

SOIL Sampling Point: 075-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10YR 3/4 100 Silt loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - S	South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	07/29/2020
Applicant/Owner:			ConnectGen LLC	. ,	,	•	ate: New York	-	075-1W
Investigator(s):		SPF HK		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra			l ocal r		ave, convex, n		Concave		(%): 10
Subregion (LRR or MLRA				-	.2039605	Long:	-79.710025		` '
Soil Map Unit Name:							NWI classification		PEM
Are climatic / hydrologic of						(If no	explain in Remark		
, ,	, Soil, o		•				cumstances" prese	•	(No
			naturally p				ain any answers in		<u> </u>
SUMMARY OF FIN		_				•	•	•	
							to, important	reatures, etc.	
Hydrophytic Vegetation	n Present?		X No	_	Is the Samp				
Hydric Soil Present?			X No	_	within a We		Yes X		_
Wetland Hydrology Pre	esent?	Yes	X No	_	If yes, optior	nal Wetland Site	e ID:	075	
Remarks: (Explain alte	rnative procedure	s here or in a	senarate renort)	L.					
rtomanto. (Explain alto	Thative procedures	011010 01 111 0	coparato roporti,						
HYDROLOGY									
Wetland Hydrology Ir	ndicators:								
Primary Indicators (mir	nimum of one requ	uired; check al	I that apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	1)		X Water-Staine	d Leaves ((B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)		Aquatic Faur	na (B13)			Drainage Pa	atterns (B10)	
X Saturation (A3)			Marl Deposit	s (B15)			Moss Trim L	ines (B16)	
X Water Marks (B1)	1		Hydrogen Su	Ilfide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Deposit	ts (B2)		Oxidized Rhi	zospheres	on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	,)		Presence of	Reduced Ir	ron (C4)		Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	t (B4)		Recent Iron F	Reduction i	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck St	urface (C7))		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery	y (B7)	Other (Explai	in in Remai	rks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surfac	ce (B8)					Microtopogr	aphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
F: 1101 //									
Field Observations:		NI-	V Double (in the						
1 O	· 0		X Depth (inch						
Surface Water Present			<u> </u>						
Water Table Present?	Yes _	No	X Depth (inch	· -	_	147 (1 111 1		V V	N 1
Water Table Present? Saturation Present?	Yes _ Yes _		X Depth (inch Depth (inch	· -	0	Wetland Hyd	rology Present?	Yes X	No
Water Table Present?	Yes _ Yes _	No		· -	0	Wetland Hyd	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present?	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No
Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X	Depth (inch	es):		•	rology Present?	Yes X	No

/EGETATION - Use scientific names of plants.				Sampling Point: 075-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
<u>Tree Stratum</u> (Plot size:30) 1 2	%Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 2 (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
5.				
7		= Total Cov	rer	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15) 1. Fraxinus pennsylvanica / Green ash	5		FACW	OBL species 0 x 1 = 0 FACW species 25 x 2 = 50 FAC species 60 x 3 = 180
2.				FACU species 0 x 4 = 0
3				UPL species 0 x 5 = 0
5. 6.				Column Totals: 85 (A) 230 (B) Prevalence Index = B/A = 2.71
7		= Total Cov		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	00		E4.0	X 2 - Dominance Test is >50%
Microstegium vimineum / Japanese stilt grass Onoclea sensibilis / Sensitive fern	<u>60</u> 15	Yes No	FAC FACW	X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed	5	No	FACW	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5				¹Indicators of hydric soil and wetland hydrology must
7. 8.				be present, unless disturbed or problematic. Definitions of Vegetation Strata
9				-
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	80	= Total Cov	er	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:) 1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3.				Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic
				Vegetation Present? Yes No
Remarks: (Explain alternative procedures here or in a separa	te report.)			

 SOIL
 Sampling Point: ____075-1W

Depth	ription: (Describe to the Matrix			k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10YR 4/1	80	7.5 YR 5/6	20	С	М	Loam			
	•	· ·				· ·	_			
		. ,								
		. ,								
Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=N	Лatrix.
lydric Soil I	ndicatore:						Indicators	for Probl	ematic Hydric	Soile ³ :
-			Dobarduo Bolov	v Curfoss (CC) / DD D	MI DA 440E			-	
Histosol	` '		Polyvalue Belov)) (LRR K, L, M	-
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LR	
Black Hi			Loamy Mucky M		LKK K, L)				at or Peat (S3)	(LKK K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	7) (LRR K, L)	(1 DD 14 1)
	d Layers (A5)		X Depleted Matrix						V Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Sur						ce (S9) (LRR I	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)							Parent Mat		10)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	-KA 149B)					Other	(Explain ii	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	s disturbed	or problema	atic.			
						·				
	.ayer (if observed):									
Type:	-l \·						Usadais Osii B		V V	NI-
Depth (in	cnes):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020	- South Ripley		City/County:	Chautauqu	ia County	Sampling Date:	07/29/2020
Applicant/Owner:		Cc	onnectGen LLC	, , <u> </u>	•	State: New York		076 - 1U
Investigator(s):		SPF HK		Section, Towns	ship, Range:	To	wn of Ripley	
Landform (hillslope, terr	race, etc):	Slope	Local re	elief (concave, c	onvex, none):	None	Slope	(%): 10
Subregion (LRR or MLF			Lat:	42.20488	281 Long:	-79.708867	68 Datun	n: NAD 83
Soil Map Unit Name:	· .		It loam, 3 to 8 per	rcent slopes		NWI classification	on:	
Are climatic / hydrologic	c conditions on th	ne site typical for th	nis time of year?	Yes X	No (If r	 no, explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantl	y disturbed?	Are "Normal (Circumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally p	roblematic?	(If needed, ex	cplain any answers in	Remarks.)	
SUMMARY OF FIN	NDINGS - Att	ach site map	showing sam	pling point	locations, trans	ects, important	features, etc.	
Hydrophytic Vegetation		Yes	No X		ne Sampled Area	•	•	
Hydric Soil Present?		Yes	No X		nin a Wetland?	Yes	No X	
Wetland Hydrology P		Yes	No X	_	es, optional Wetland S			_
					,			
Remarks: (Explain al	ternative procedu	ures here or in a se	eparate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m		equired: check all t	that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (squired, effect all t		d Leaves (B9)			il Cracks (B6)	wo required)
High Water Table	,	_	Aquatic Faun	` ,			atterns (B10)	
Saturation (A3)	. ,	_	Marl Deposits			Moss Trim I		
Water Marks (B		_		Ifide Odor (C1)			Water Table (C2)	
Sediment Depos	,	_		zospheres on Li	ing Roots (C3)	Crayfish Bu		
Drift Deposits (B		_		Reduced Iron (C			visible on Aerial Ima	agery (C9)
Algal Mat or Cru	•	_		Reduction in Tille	•		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su		ia cono (co)		c Position (D2)	• /
I — ' '	ole on Aerial Imag			n in Remarks)		Shallow Aq		
	ated Concave Su	_					raphic Relief (D4)	
		(= -)				FAC-Neutra		
						<u> </u>		
Field Observations:								
Surface Water Prese		s No _X						
Water Table Present?		s No _X	' '	· -				
Saturation Present?	Yes	s No _ X	Depth (inch	es):	Wetland H	ydrology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	Data (stream gaue	ge monitoring wel	l aerial photos n	revious inspecti	ons) if available			
Describe recorded E	Jata (Stream gaa	ge, monitoring wen	ii, aciiai priotos, p	nevious mopeou	ono), ii avallabic.			
Remarks:								
i								

Tree Stratum (Plot size: 30)				
From Chapture (Distaine) 20				Dominance Test worksheet:
Free Stratum (Distains 20				Number of Dominant Species
From Chrotium (Diet sine) 20	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(*,
1. Acer saccharum / Sugar maple	80	Yes	FACU	Total Number of Dominant
<u> </u>		-		Species Across All Strata: 4 (B)
2			-	opedies Adioss Ali Ottata.
				Descent of Deminent Coopies
4				Percent of Dominant Species
5			- 	That Are OBL, FACW, or FAC: 25.0 (A/B)
6.		<u> </u>		Prevalence Index worksheet:
7				
	80	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	5	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3.				FACU species 85 x 4 = 340
4.				UPL species 0 x 5 = 0
5.				Column Totals: 85 (A) 340 (B)
6				Prevalence Index = B/A = 4.0
7	5	- Total Cau		Hydrophytic Vegetation Indicators:
	5	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Thelypteris noveboracensis / New york fern	20	Yes		3 - Prevalence Index ≤3.01
2				4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				Troblematic rryurophytic vegetation (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7.		_		be present, unless disturbed or problematic.
•				Definitions of Venetation Office
n				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			- 	breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	20	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1. Vitis riparia / River-bank grape		Yes	FAC	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
				11636Ht: 1C3 NOX

SOIL Sampling Point: _____076 - 1U

Depth	cription: (Describe to the Matrix	ne aeptn ne		ne indicator x Features	or confirm	me absen	ice of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Rema	arks
0-2	10YR 3/4	100					Silt loam		
2-18	10YR 4/4	100					Silt loam		
		,					· · · · · · · · · · · · · · · · · · ·		
		,					· · · · · · · · · · · · · · · · · · ·		
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Mas	ked Sand Gr	ains.		² Location	: PL=Pore Lining,	M=Matrix.
Hydric Soil I	Indicators:						Indicators for	Problematic Hyd	dric Soils³:
Histosol			Polyvalue Belov	w Surface (St	8) (LRR R.I	MLRA 149		ck (A10) (LRR K,	
	pipedon (A2)		Thin Dark Surfa	•			· -	airie Redox (A16)	
	istic (A3)		Loamy Mucky N			,			S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		,, - /			face (S7) (LRR K	
	d Layers (A5)		Depleted Matrix					e Below Surface (S	
	d Below Dark Surface (A11)	Redox Dark Su	` '				Surface (S9) (LI	
	ark Surface (A12)	,	Depleted Dark						=12) (LRR K, L, F
	Mucky Mineral (S1)		Redox Depress					-	(F19) (MLRA 149
	Gleyed Matrix (S4)							•	A 144A, 145, 149I
	Redox (S5)							ent Material (F21)	, -, -
	d Matrix (S6)							llow Dark Surface	(TF12)
	ırface (S7) (LRR R, ML	RA 149B)						plain in Remarks)	
							<u>—</u>		
³Indicators of	f hydrophytic vegetation	and wetland	I hydrology must be p	resent, unles	ss disturbed	or problem	natic.		
Restrictive I	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Pres	ent? Yes	NoX
Remarks:									

Project/Site:	19020 - South Rip	ley	City/County:	Chautauqua	a County	Sampling Date:	07/29/2020
Applicant/Owner:		ConnectGen LLC	-	· ·	State: New York		076-1W
Investigator(s):	SPF HK		Section, Township			wn of Ripley	
Landform (hillslope, terrac	e, etc): Lowl	and Local	relief (concave, conv		Concave		(%): 0-3
Subregion (LRR or MLRA			· ·	· -			
Soil Map Unit Name:		Busti silt loam, 3 to 8 pe			NWI classification		PEM
Are climatic / hydrologic c				No (If no	— o, explain in Remark	s.)	
, ,	Soil, or Hydrole	•		Are "Normal C	ircumstances" prese	ent? Yes X	(No
	Soil , or Hydrole				olain any answers in		
SUMMARY OF FINE					•	•	
		-			oto, important		
Hydrophytic Vegetation				Sampled Area	Vaa. V	Na	
Hydric Soil Present?	Yes			a Wetland?	Yes X		_
Wetland Hydrology Pre	sent? Yes	X No	ii yes,	optional Wetland S	ile iD:	076	
Remarks: (Explain alter	native procedures here or	in a separate report.)					
	,						
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology In							
-	mum of one required; che					ators (minimum of t	wo required)
Surface Water (A1	,	X Water-Stain	` ,			l Cracks (B6)	
High Water Table (A2)	Aquatic Fau				atterns (B10)	
X Saturation (A3)		Marl Deposi			Moss Trim L	, ,	
Water Marks (B1)		X Hydrogen S				Water Table (C2)	
Sediment Deposits		Oxidized Rh	izospheres on Living	Roots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)			Reduced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Recent Iron	Reduction in Tilled S	soils (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck S			Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7)	Other (Expla	ain in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	d Concave Surface (B8)				Microtopogr	aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present	Yes N	o X Depth (inc	hee).				
Water Table Present?		o X Depth (incl		_			
Saturation Present?		o Depth (incl	· —	Wotland Hy	drology Present?	Yes X	No
(includes capillary fringe		O Deptil (illo	. <u> </u>	_ Welland Hy	urology Fresent:	163 <u>X</u>	
(includes capillary inligi	=) 						
Describe Recorded Dat	a (stream gauge, monitori	ng well, aerial photos,	previous inspections), if available:			
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point: 076-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	That Are OBL, FACW, or FAC: 2 (A)
1				Total Number of Dominant Species Across All Strata: (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
7		= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:) 1.				OBL species 0 x 1 = 0 FACW species 5 x 2 = 10
2.				FAC species 10 x 3 = 30
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5. 6.				Column Totals: 15 (A) 40 (B) Prevalence Index = B/A = 2.67
7.				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5		_		1 - Rapid Test for Hydrophytic Vegetation
1. Microstegium vimineum / Japanese stilt grass	10	Yes	FAC	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
2. Impatiens capensis / Spotted jewelweed	5	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Galium / Bedstraw4.	2	No	<u> </u>	Problematic Hydrophytic Vegetation¹ (Explain)
5.		_		¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11 12				breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:30)	17	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in
3. 4.				height.
	0	= Total Cov	er	Hydrophytic Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separa	te report.)			

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10 YR 3/1	90	7.5 YR 4/4	10	С	М	Loam			
12-24	10 YR 4/4	95	7.5 YR 5/6	5	С	М	Clay loam			
	-		-							
	-		-							
				_						
	· ·									
	-									
	-									
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		² Loca	ation: PL=P	ore Lining, M=Ma	atrix.
lydric Soil I	ndicators:						Indicators	s for Proble	ematic Hydric S	oils³:
Histosol			Polyvalue Belov	v Surface (St	8) (LRR R .	MLRA 149) (LRR K, L, ML	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR	-
	istic (A3)		Loamy Mucky M			1430)			at or Peat (S3) (L	
	• •				(LIXIX IX, L)					rx, L, R)
	en Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	DD K I)
	d Layers (A5)	A 44\	X Depleted Matrix						/ Surface (S8) (L	
	d Below Dark Surface (A	41T)	Redox Dark Sur						ce (S9) (LRR K,	
	ark Surface (A12)		Depleted Dark S					ū	Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 144	A, 145, 149B)
	Redox (S5)							Parent Mate		
	d Matrix (S6)								ark Surface (TF12	2)
Dark Su	ırface (S7) (LRR R, ML	-RA 149B)					Othe	r (Explain ir	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	l hydrology must be n	recent unles	e dieturhad	or problem	atic			
- Indicators of	- In a regulation	and Wodane	- Hydrology made 50 p		- diotarboa	or problem				
Restrictive L	_ayer (if observed):									
Type:			<u></u>							
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
Remarks:						ı				
Ciliains.										

Project/Site:	19020 - S	South Ripley	City/0	County:	Chautauqua (County	Sampling Date:	07/29/2020
Applicant/Owner:			nectGen LLC	,	•	ate: New York		077-1U
Investigator(s):		SPF HK		ion, Township, Ra			wn of Ripley	
Landform (hillslope, terra				concave, convex,		Convex		(%): 10
Subregion (LRR or MLRA				42.20488281	Long:	-79.708867		` '
Soil Map Unit Name:			oam, 3 to 8 percent s			NWI classification		1. 10.15.00
Are climatic / hydrologic o					(If no	explain in Remark		
, ,			significantly distu			cumstances" prese	•	(No
			naturally problem			ain any answers in		<u> </u>
						•	•	
SUMMARY OF FINE		n site map si		g pomi iocan	ons, transec	is, important	reatures, etc.	
Hydrophytic Vegetation	n Present?	Yes		Is the Sam	pled Area			
Hydric Soil Present?		Yes	NoX	within a W	etland?	Yes	No X	_
Wetland Hydrology Pre	esent?	Yes	NoX	If yes, option	onal Wetland Site	e ID:		
Remarks: (Explain alte	rnative procedure	s here or in a sen	arate report)					
Terriarks. (Explain alte	mative procedure.	s here or in a sep	diate report.)					
HYDROLOGY								
Wetland Hydrology In	ndicators:							
Primary Indicators (min		ired: check all tha	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1			Water-Stained Leav	/es (B9)			l Cracks (B6)	
High Water Table	•		Aquatic Fauna (B13	` '			atterns (B10)	
Saturation (A3)	()		Marl Deposits (B15)			Moss Trim L		
Water Marks (B1)	1		Hydrogen Sulfide O	•			Water Table (C2)	
Sediment Deposit			Oxidized Rhizosphe		ote (C3)	Crayfish Bu		
Drift Deposits (B3)	` '		Presence of Reduce	-	013 (00)		/isible on Aerial Ima	geny (CQ)
Algal Mat or Crust	•		Recent Iron Reduct	. ,	(C6)		Stressed Plants (D1	
			Recent non Reduct)
_ ·		_	•		(00)		•	,
Iron Deposits (B5)	5)		Thin Muck Surface	(C7)	(00)	Geomorphic	Position (D2)	,
Iron Deposits (B5) Inundation Visible	on Aerial Imagery	· · · · —	•	(C7)	(60)	Geomorphic Shallow Aqu	c Position (D2) uitard (D3)	,
Iron Deposits (B5) Inundation Visible	5)	· · · · —	Thin Muck Surface	(C7)	(66)	Geomorphic Shallow Aqu Microtopogr	c Position (D2) uitard (D3) raphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible	on Aerial Imagery	· · · · —	Thin Muck Surface	(C7)	(00)	Geomorphic Shallow Aqu	c Position (D2) uitard (D3) raphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible Sparsely Vegetate	on Aerial Imagery	· · · · —	Thin Muck Surface	(C7)	(60)	Geomorphic Shallow Aqu Microtopogr	c Position (D2) uitard (D3) raphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations:	e on Aerial Imagery ed Concave Surfac	ce (B8)	Thin Muck Surface Other (Explain in Re	(C7)	(60)	Geomorphic Shallow Aqu Microtopogr	c Position (D2) uitard (D3) raphic Relief (D4)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present	t? Yes _	NoX	Thin Muck Surface Other (Explain in Re	(C7)	(60)	Geomorphic Shallow Aqu Microtopogr	c Position (D2) uitard (D3) raphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present?	t? Yes _ Yes _	No X No X	Thin Muck Surface Other (Explain in Re	(C7)		Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	t? Yes _ Yes _ Yes _	NoX	Thin Muck Surface Other (Explain in Re	(C7)		Geomorphic Shallow Aqu Microtopogr	c Position (D2) uitard (D3) raphic Relief (D4)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present?	t? Yes _ Yes _ Yes _	No X No X	Thin Muck Surface Other (Explain in Re	(C7)		Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Field Observations: Surface Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Field Observations: Surface Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Field Observations: Surface Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	
Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _	No X No X No X	Thin Muck Surface Other (Explain in Re Depth (inches): Depth (inches): Depth (inches):	(C7) emarks)	Wetland Hyd	Geomorphic Shallow Aqı Microtopogr FAC-Neutra	c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)	

VEGETATION - Use scientific names of plants.				Sampling Point: 077-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	80	Yes	FACU	Total Number of Dominant
2				Species Across All Strata: 3 (B)
3				
4	_			Percent of Dominant Species
5.		-		That Are OBL, FACW, or FAC: 0.0 (A/B)
6.				Prevalence Index worksheet:
7	80	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ = 10tal Cov	EI	OBL species 0 x 1 = 0
1. Fagus grandifolia / American beech	5	Yes	FACU	FACW species 0 x 2 = 0
			1700	FAC species 0 x 3 = 0
2.		- ·		FACU species 85 x 4 = 340
3. 4.				UPL species 0 x 5 = 0
5.				Column Totals: <u>85</u> (A) <u>340</u> (B)
6.				Prevalence Index = B/A = 4.0
7.				
	5	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Thelypteris noveboracensis / New york fern	20	Yes		3 - Prevalence Index ≤3.0¹
2		_		4 - Morphological Adaptations (Provide supporting
3.		-		Problematic Hydrophytic Vegetation¹ (Explain)
4				residing right opiny to vegetation (Explain)
5	-	-		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7.	-	-		,
8.				Definitions of Vegetation Strata
9.				
10	· ———			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11. 12				
12	20	= Total Cov	er	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)			·.	Herb - All herbaceous (non-woody) plants, regardless of
1. Vitis riparia / River-bank grape			FAC	size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.	-			height.
4.				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	героп.)			

 SOIL
 Sampling Point:
 077-1U

((nothes)) Color (moist) % Color (moist) % Type* Loc* Texture Remarks 2-18 10YR 344 1000 Sit loan Type: C=Concentration. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Type: C=Concentration. D=Depletion, RM=Reduced Matrix, MS=Masked Matrix, MS=Mask	Depth	ription: (Describe to th Matrix			x Features		<u></u> _	,				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. *Hydric Soil Indicators: Histosol (A1)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Location: PL=Pore Lining, M=Matrix.* **Idicators for Problematic Hydric Soils*: Histosol (A1)	0-2	10YR 3/4	100					Silt loam				
Histosol (A1)	2-18	10YR 4/4	100					Silt loam				
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Histosol (A1)												
Hydric Soil Indicators: Histosol (A1)												
Hydric Soil Indicators: Histosol (A1)												
Histosol (A1)												
Hydric Soil Indicators: Histosol (A1)												
Hydric Soil Indicators: Histosol (A1)												
Histosol (A1)	Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gra	ains.		²Location	n: PL=Po	re Lining, N	/I=Matrix.	
Histosol (A1)		ndicatore:						Indicators fo	r Proble	matic Hyd	ric Soile ³ :	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Sandy Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X	-			Polyvaluo Polo	v Surface (S) / DD D M	I DA 140E			-		
Black Histic (A3)		• •										-
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X							490)					
Stratified Layers (A5)						LRR R, L)						., ∟, K)
Depleted Below Dark Surface (A11)											-	7 1)
Thick Dark Surface (A12)		• • •	(11)	 -						-		., L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Chindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X			(11)									K I D)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes No X									-			
Sandy Redox (S5)		• ,		Redux Depless	10115 (1 0)							
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X		• • • •									1 1447, 14	J, 143D)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 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 No _X											TE12\	
Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):			DA 140B)								11 12)	
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX	Daik Su	illace (37) (LIKIK IK, MIL	IXA 143D)					Other (L	Apiaiii iii	(Ciliaiks)		
Type:	3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed o	r problem	atic.				
Type:	D 4 - 1 - 4 l 1											
Depth (inches): Hydric Soil Present? Yes No X		-ayer (if observed):										
		iches).						Hydric Soil Pres	ont?	Voc	No	¥
Remarks:	Deptii (iii							Tiyunc 3011 Fres	GIIL:			
	Remarks:											

	0020 - South Ripley	Cit	y/County:	Chautauqua C	ountv	Sampling Date:	07/29/2020
Project/Site: 19 Applicant/Owner:		nectGen LLC				Sampling Point:	077-1W
Investigator(s):	SPF HK		ction, Township, Ra			wn of Ripley	
Landform (hillslope, terrace, etc):			(concave, convex,		Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):		Lat:	-		-79.708925		` '
		loam, 3 to 8 percent			NWI classification		PEM
Are climatic / hydrologic conditions				(If no, e	explain in Remark	(s.)	
Are Vegetation, Soil		•			umstances" prese	•	(No
· · · · · · · · · · · · · · · · · · ·	, or Hydrology		ematic?	(If needed, explain	n any answers in	Remarks.)	
SUMMARY OF FINDINGS -					-	•	
Hydrophytic Vegetation Present?	-		Is the Sam				
Hydric Soil Present?	Yes X	No No	within a W	•	Yes X	No	
Wetland Hydrology Present?	Yes X	No		nal Wetland Site		077	_
Welland Hydrology Frederits	100 <u>X</u>		ii yes, opue	riai Wellaria Olle		011	
Remarks: (Explain alternative pro	cedures here or in a sep	arate report.)					
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of o	no required: abook all th	at apply)			Socondary Indio	ators (minimum of t	wo roquirod)
Surface Water (A1)		Water-Stained Le	12V65 (R0)			ators (minimum of t I Cracks (B6)	wo required)
High Water Table (A2)	<u> </u>	Aquatic Fauna (B				atterns (B10)	
X Saturation (A3)		Marl Deposits (B1	•		Moss Trim I		
Water Marks (B1)	X	Hydrogen Sulfide	•			Water Table (C2)	
Sediment Deposits (B2)		-	heres on Living Ro	ots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)		Presence of Redu	-	313 (30)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		=	ction in Tilled Soils	(C6)		Stressed Plants (D1	
Iron Deposits (B5)	_	Thin Muck Surfac		(30)		Position (D2)	,
Inundation Visible on Aerial	magery (B7)	Other (Explain in			Shallow Aq		
Sparsely Vegetated Concave			,			aphic Relief (D4)	
_ , , ,	. ,				X FAC-Neutra		
Field Observations:							
Surface Water Present?	Yes No X	_ ' ' '					
Water Table Present?	Yes No X	_ ' ' '					
Saturation Present?	Yes X No	_ Depth (inches):	0	Wetland Hydr	ology Present?	Yes X	No
(includes capillary fringe)							
(sauss supmarygs)			!t!\ ! c				
	gauge, monitoring well.	aerial photos, previo	ous inspections). It	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aerial photos, previ	ous inspections), if	available:			
	gauge, monitoring well,	aerial photos, previ	ous inspections), if	available:			
	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aerial photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aerial photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			
Describe Recorded Data (stream	gauge, monitoring well,	aeriai photos, previ	ous inspections), if	available:			

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
ree Stratum (Plot size:)	%Cover	Species?	Status	
				Total Number of Dominant
			_	Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0 (A/B)
				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		_ = 10(a) 000	CI	OBL species 0 $x = 0$
· · · · · · · · · · · · · · · · · · ·				FACW species 5 x 2 = 10
				FAC species 10 x 3 = 30
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
			_	Column Totals:15 (A)40 (B)
				Prevalence Index = B/A = 2.67
		-		
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		-		1 - Rapid Test for Hydrophytic Vegetation
Microstegium vimineum / Japanese stilt grass	10	Yes	FAC	X 2 - Dominance Test is >50%
Impatiens capensis / Spotted jewelweed	5	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Galium / Bedstraw	2	No		4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
				1Indicators of hydric coil and wetland hydrology must
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
l				breast height (DBH), regardless of height.
2.				Sapling/shrub - Woody plants less than 3 in. DBH and
	17	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	_			Woody vines - All woody vines greater than 3.28 ft in height.
				noight.
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? YesX No

 SOIL
 Sampling Point: ____077-1W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10 YR 3/1	90	7.5 YR 4/4	10	С	М	Loam			
12-24	10 YR 4/4	95	7.5 YR 5/6	5	С	М	Clay loam			
	-		-							
	-		-							
				_						
	· ·									
	-									
	-									
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		² Loca	ation: PL=P	ore Lining, M=Ma	atrix.
lydric Soil I	ndicators:						Indicators	s for Proble	ematic Hydric S	oils³:
Histosol			Polyvalue Belov	v Surface (St	8) (LRR R .	MLRA 149) (LRR K, L, ML	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR	-
	istic (A3)		Loamy Mucky M			1430)			at or Peat (S3) (L	
	• •				(LIXIX IX, L)					rx, L, R)
	en Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	DD K I)
	d Layers (A5)	A 44\	X Depleted Matrix						/ Surface (S8) (L	
	d Below Dark Surface (A	41T)	Redox Dark Sur						ce (S9) (LRR K,	
	ark Surface (A12)		Depleted Dark S					ū	Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 144	A, 145, 149B)
	Redox (S5)							Parent Mate		
	d Matrix (S6)								ark Surface (TF12	2)
Dark Su	ırface (S7) (LRR R, ML	-RA 149B)					Othe	r (Explain ir	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	l hydrology must be n	recent unles	e dieturhad	or problem	atic			
- Indicators of	- In a regulation	and Wodane	- Hydrology made 50 p		- diotarboa	or problem				
Restrictive L	_ayer (if observed):									
Type:			<u></u>							
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
Remarks:						ı				
Ciliains.										

Project/Site:	19020 - 9	South Ripley	City/Co	ounty:	Chautauqua Co	unty	Sampling Date:	08/03/2020
Applicant/Owner:			ectGen LLC	,			Sampling Point:	078-1U
Investigator(s):		SPF		n, Township, Rang			vn of Ripley	
Landform (hillslope, terra	ace etc):			ncave, convex, no		Convex		(%): 6-11
Subregion (LRR or MLRA			Lat:			-79.66	Datum	`
			Lat a silt loam, 15-25% slo			NWI classification	-	. NAD 63
Soil Map Unit Name:		· · · · · · · · · · · · · · · · · · ·	,	•				
Are climatic / hydrologic of			· -			plain in Remark	,	
			significantly disturb			mstances" prese		No
			naturally problema		-	any answers in	•	
SUMMARY OF FIN	DINGS - Attac	:h site map sho	owing sampling	point location	is, transects	s, important	features, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is the Sample	ed Area			
Hydric Soil Present?		Yes		within a Wetl		Yes	No X	
Wetland Hydrology Pre	esent?	Yes			I Wetland Site II		Wetland 78	_
				, 500, 500.00			7700.0.10.70	
Remarks: (Explain alte	ernative procedure	s here or in a separ	rate report.)					
HYDROLOGY								
Wetland Hydrology Ir	ndicators:							
Primary Indicators (mir	nimum of one requ	uired; check all that	apply)		9	Secondary Indica	ators (minimum of to	vo required)
Surface Water (A	.1)		Water-Stained Leaves	s (B9)		Surface Soil	Cracks (B6)	
High Water Table	: (A2)	_	Aquatic Fauna (B13)	, ,	_	 Drainage Pa	atterns (B10)	
Saturation (A3)	,		Marl Deposits (B15)		-	Moss Trim L		
Water Marks (B1))		Hydrogen Sulfide Odd	or (C1)	=		Water Table (C2)	
Sediment Deposit	,		Oxidized Rhizosphere		(C3)	Crayfish Bu		
	, ,		· ·	-	_		isible on Aerial Ima	gon, (CO)
Drift Deposits (B3	•		Presence of Reduced	` ,	-			
Algal Mat or Crus			Recent Iron Reduction	•			Stressed Plants (D1)
Iron Deposits (B5	•		Thin Muck Surface (C	•	=		Position (D2)	
	e on Aerial Imager		Other (Explain in Ren	narks)	_	Shallow Aqu		
		ce (B8)			_		aphic Relief (D4)	
Sparsely Vegetate	ed Concave Surfa	()						
Sparsely Vegetate	ed Concave Surfa	()			_	FAC-Neutra	Liest (D5)	
	ed Concave Surfa				-	FAC-Neutra	I Test (D5)	
Field Observations:			D # 6 1)		-	FAC-Neutra	I Test (D5)	
Field Observations: Surface Water Present	t? Yes _	No <u>X</u>	Depth (inches):		<u>-</u>	FAC-Neutra	Test (D5)	
Field Observations: Surface Water Present Water Table Present?	t? Yes _ Yes _	No X No X	Depth (inches):		-	_		
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes _ Yes _ Yes _	No <u>X</u>	· · · · · · · · · · · · · · · · · · ·		- Wetland Hydro	_	Yes	No <u>X</u>
Field Observations: Surface Water Present Water Table Present?	t? Yes _ Yes _ Yes _	No X No X	Depth (inches):		- Wetland Hydro	_		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes _ Yes _ Yes _ ge)	No X No X No X	Depth (inches):			_		No X

2. Acer rubrum / Red maple 1 3.	ver 25 10 35	Species? Yes Yes		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Tree Stratum (Plot size: 30) %Co 1. Populus tremuloides / Quaking aspen 2 2. Acer rubrum / Red maple 1 3. 4. 5. 6. 7. 3 Sapling/Shrub Stratum (Plot size: 15 1. Lonicera morrowii / Morrow's honeysuckle 2 2. 3 4. 5	ver 25 10 35	Species? Yes Yes Total Cove	FACU FAC	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
Tree Stratum (Plot size: 30) %Co 1. Populus tremuloides / Quaking aspen 2 2. Acer rubrum / Red maple 1 3. 4 5. 6 7. 3 Sapling/Shrub Stratum (Plot size: 15 1. Lonicera morrowii / Morrow's honeysuckle 2 2. 3 4. 5	ver 25 10 35	Species? Yes Yes Total Cove	FACU FAC	Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
1. Populus tremuloides / Quaking aspen 2 2. Acer rubrum / Red maple 1 3. 4. 5. 6. 7. 3 Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle 2 2. 3. 4. 5. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	25 10 335 20	Yes Yes Total Cove	FACU FAC	Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
1. Populus tremuloides / Quaking aspen 22. Acer rubrum / Red maple 113. 4. 5. 6. 7. 3. Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle 22. 3. 4. 5. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	35	Yes Yes Total Cove	FAC	Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
2.	35	= Total Cove	FAC	Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
3.	35	= Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
4	35	= Total Cove		That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
5	35	= Total Cove		That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
6	35 20	= Total Cove		Prevalence Index worksheet:
7	35 20	= Total Cove		
Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle 2 2. 3. 4.	20	-	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15) 1. Lonicera morrowii / Morrow's honeysuckle 2 2. 3. 4.	20	-	1	
1. Lonicera morrowii / Morrow's honeysuckle 2 2		Voo		OBL species 0 x 1 = 0
2			FACU	FACW species 13 x 2 = 26
3		- — —	FACO	FAC species 30 x 3 = 90
4.				FACU species 65 x 4 = 260
				UPL species 0 x 5 = 0
5				Column Totals: 108 (A) 376 (B)
				Prevalence Index = B/A = 3.48
6				1 Tevalence index = B/A = 3.40
7				Hydrophytic Vegetation Indicators:
	20	= Total Cove	r	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Solidago rugosa / Wrinkle-leaf goldenrod	20	Yes	FAC	3 - Prevalence Index ≤3.0¹
2. Rubus allegheniensis / Allegheny blackberry	10	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3. Solidago canadensis / Canada goldenrod	10	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Impatiens capensis / Spotted jewelweed	8	No	FACW	Problematic Hydrophytic Vegetation (Explain)
5. Lysimachia nummularia / Moneywort, Creeping-jenny	5	No	FACW	Aladiantara of hadria and another of hadron source
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation Strata
10				Tree Mondy plants 2 in (7.6 cm) or more in diameter at
11.		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.				
	53	= Total Cove		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)		. Iolai covo	•	
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				
2.				Woody vines - All woody vines greater than 3.28 ft in
J				height.
4		- 		Hadronkod's
	0	= Total Cove	r	Hydrophytic
				Vegetation
				Present? Yes No X

SOIL Sampling Point: 078-1U

Profile Desc Depth	ription: (Describe to the Matrix	ne depth ne		ie indicator Features	or confirm	the absen	ce of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	arks	
0-3	10YR 3/2	100			C		loam			
3-18	10YR 3/3	95	10YR 5/8	5	С	М	loam			
					. <u></u> .					
			1		·					
	- · ·									
	- · ·									
	· ·									
¹Type: C=Co	ncentration, D=Depletio	n, RM=Redi	uced Matrix, MS=Masl	ked Sand Gr	rains.		² Location	: PL=Pore Lining,	M=Matrix.	
Hydric Soil	ndicators:						Indicators for	Problematic Hyd	dric Soils³:	
Histoso	(A1)		Polyvalue Belov	V Surface (S	8) (LRR R ,I	MLRA 149	B) 2 cm Mud	k (A10) (LRR K,	L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	149B)	Coast Pra	airie Redox (A16)	(LRR K, L, R)	
Black H	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mud	ky Peat or Peat (S3) (LRR K, L, F	₹)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark Sur	ace (S7) (LRR K	ί, L)	
Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S	38) (LRR K, L)	
Deplete	d Below Dark Surface (A	411)	Redox Dark Sur	face (F6)			Thin Dark	Surface (S9) (L	RR K, L)	
Thick D	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Man	ganese Masses (F	⁻ 12) (LRR K, L,	, R)
Sandy N	Mucky Mineral (S1)		Redox Depressi	ons (F8)				Floodplain Soils		
	Gleyed Matrix (S4)							odic (TA6) (MLR	A 144A, 145, 149	9B)
	Redox (S5)							nt Material (F21)		
	d Matrix (S6)							llow Dark Surface		
Dark Su	ırface (S7) (LRR R, ML	.RA 149B)					Other (Ex	plain in Remarks))	
³Indicators of	hydrophytic vegetation	and wetland	l hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
				-						
	_ayer (if observed):									
Type: Depth (ir	oppos).						Hydric Soil Pres	nt? Voc	No. V	,
Deptii (ii							nyunc son Presi	ent? Yes	NoX	<u>-</u>
Remarks:										

Project/Site:	19020 - South Rip	lev	City/County:	Chautauqua	a County	Sampling Date:	08/03/2020
Applicant/Owner:	1	•	- , , <u> </u>	·	State: New York		078-1W
Investigator(s):	SPF		Section, Townshi			wn of Ripley	
Landform (hillslope, terrace		Seep Local	relief (concave, con		Concave		(%): 6-11
Subregion (LRR or MLRA)			42.2			Datum	
Soil Map Unit Name:					NWI classification	-	PEM
Are climatic / hydrologic co				No (If no	rvvv classification, explain in Remark		LIVI
, ,	Soil, or Hydrol	•			ircumstances" prese	,	(No
	Soil , or Hydrol				plain any answers in		<u> </u>
					-		
SUMMARY OF FIND				cations, transe	ecis, important	ieatures, etc.	
Hydrophytic Vegetation I	Present? Yes			Sampled Area			
Hydric Soil Present?	Yes	X No	within	a Wetland?	Yes X	No	=
Wetland Hydrology Pres	ent? Yes	X No	If yes,	optional Wetland S	ite ID:	Wetland 78	
Remarks: (Explain altern	ative procedures here of	in a congrate report)	I				
itemarks. (Explain alten	ative procedures here of	iii a separate report.)					
HYDROLOGY							
Wetland Hydrology Ind	icators:						
Primary Indicators (minir		ck all that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)			ed Leaves (B9)			Cracks (B6)	
High Water Table (A		Aquatic Fau	` '		X Drainage Pa	` '	
Saturation (A3)	·-/	Marl Deposi			Moss Trim L		
Water Marks (B1)			ulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		izospheres on Livin	a Poots (C3)	Crayfish Bu		
<u> </u>	(DZ)		Reduced Iron (C4)	y Roots (C3)			200m/ (CO)
Drift Deposits (B3)	D4)		` ,	Caila (CC)		isible on Aerial Ima	
Algal Mat or Crust (B4)		Reduction in Tilled	Solis (Co)		Stressed Plants (D1)
Iron Deposits (B5)	A : 11 (DZ)	Thin Muck S			X Geomorphic		
	n Aerial Imagery (B7)	Other (Expla	in in Remarks)		Shallow Aqu		
Sparsely vegetated	Concave Surface (B8)					aphic Relief (D4)	
					X FAC-Neutra	l lest (D5)	
Field Observations:							
Surface Water Present?	Yes N	o X Depth (incl	nes).				
Water Table Present?		o X Depth (incl		_			
Saturation Present?		o X Depth (incl		Wotland Hy	drology Present?	Yes X	No
(includes capillary fringe		O X Deptil (illoi	ies).	_ vveiland my	diology Fresent:	163 <u>X</u>	
(includes capillary intige)						
Describe Recorded Data	(stream gauge, monitor	ng well, aerial photos,	previous inspection	s), if available:			
	(J J ,	3 - , ,		,,			
Remarks:							

	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
%Cover	Species?		Number of Dominant Species
%Cover	Species?		•
%Cover	Species?		,,,
			I
			Total Number of Dominant
			Species Across All Strata: 3 (B)
-			Species Across All Cadia.
		• ———	Percent of Dominant Species
			·
			That Are OBL, FACW, or FAC: 100.0 (A/B)
			Prevalence Index worksheet:
	: : Cau		Total % Cover of: Multiply by:
	_ = Total Cove	3r	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
			<u> </u>
			FACW species 90 x 2 = 180
			FAC species 0 x 3 = 0
			FACU species 10 x 4 = 40
			UPL species 0 x 5 = 0
			Column Totals: (A) (B)
			Prevalence Index = B/A = 2.2
0	= Total Cov		Hydrophytic Vegetation Indicators:
	_ = 10.00. 0.	<i>)</i> 1	X 1 - Rapid Test for Hydrophytic Vegetation
40	Vas	E^(\)	X 2 - Dominance Test is >50%
			X 3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
10	No	FACU	
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			De present, unless disturbed of problematio.
			Definitions of Vegetation Strata
			Definitions of regulation chain
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	-		breast height (DBH), regardless of height.
	-		
	- Total Cov	or	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
100	IO(a) OC	11	
			Herb - All herbaceous (non-woody) plants, regardless of
	- ———		size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
0	_ = Total Cove	ər	Hydrophytic
			Vegetation
			Present? Yes X No
	0 40 30 20 10	0 = Total Cove 40 Yes 30 Yes 20 Yes 10 No 100 = Total Cove	0 = Total Cover 40 Yes FACW 30 Yes FACW 20 Yes FACW 10 No FACU 100 = Total Cover

Depth	ription: (Describe to the Matrix	<u>. </u>		r Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10YR 4/1	85	5YR 5/8	15	С	PL,M	loam			
12-18	10YR 4/1	90	5Y 5/4	10	С	М	loam			
Type: C=Co	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=M	atrix.
ydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric S	Soile ³ ·
Histosol			Polyvalue Belov	v Surface (S	8) (I RR R	MI RA 149F) (LRR K, L, ML	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRI	
	istic (A3)		Loamy Mucky M						at or Peat (S3) (
	en Sulfide (A4)		Loamy Gleyed N		(=:X:X EX, E)				at of Peat (53) (1 57) (LRR K, L)	(X (X, L, K)
	d Layers (A5)		Depleted Matrix					•	v Surface (S8) (I BB K I)
	d Below Dark Surface (Δ11)	X Redox Dark Sur						ce (S9) (LRR K	· •
	ark Surface (A12)	A11)	Depleted Dark S						e Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi					ū	plain Soils (F19)	
	Gleyed Matrix (S4)		Redox Depressi	0113 (1 0)					7A6) (MLRA 14 4	
	Redox (S5)								erial (F21)	., 140, 1402)
	Matrix (S6)								ark Surface (TF1	2)
	rface (S7) (LRR R, ML	RA 149B)							n Remarks)	_,
	(,	,						(,	
Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
Pastrictiva I	_ayer (if observed):									
Type:	Layer (ii observeu).									
Depth (in	iches).						Hydric Soil P	resent?	Yes X	No
Deptii (iii							- Tryuno don 1	1000111.	100 <u>X</u>	
Remarks:										

Project/Site:	19020 -	South Ripley	Citv	/County:	Chautaugua (County	Sampling Date:	08/03/2020
Applicant/Owner:		<u> </u>	ectGen LLC			ate: New York		079-1U
Investigator(s):		RM JK		tion, Township, R	-		wn of Ripley	
Landform (hillslope, teri	race. etc):	Hillside		concave, convex		Convex		e (%): Gentle
Subregion (LRR or MLF	· · · · · · · · · · · · · · · · · · ·			42.198547	Long:	-79.658608		` '
Soil Map Unit Name:	,		silt loam, 8 to 15%			NWI classification	-	
Are climatic / hydrologic	c conditions on the			•	(If no,	– explain in Remark	s.)	
Are Vegetation			•			cumstances" prese	•	X No
		or Hydrology		matic?	(If needed, expla	ain any answers in		
SUMMARY OF FIN						-	•	
Hydrophytic Vegetati		Yes	No X		npled Area	<u> </u>	, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?		Yes X	No X	within a V	•	Yes	No X	
Wetland Hydrology P		Yes	No X		onal Wetland Site			_
Trouding Tryanology T				11 you, op a				
Remarks: (Explain al 079-1U		es here or in a sepa	arate report.)					
HYDROLOGY								
Wetland Hydrology								
Primary Indicators (m		uired; check all that		(DO)			ators (minimum of t	wo required)
Surface Water (A	,	_	Water-Stained Lea	` '			Cracks (B6)	
High Water Tabl			Aquatic Fauna (B1	•			atterns (B10)	
Saturation (A3) Water Marks (B		_	Marl Deposits (B1) Hydrogen Sulfide (•		Moss Trim L	Water Table (C2)	
Sediment Depos	•	_	Oxidized Rhizosph	` ,	note (C3)	Crayfish Bu		
Drift Deposits (E	` '	_	Presence of Redu	-	Jois (C3)		/isible on Aerial Im	ageny (C0)
Algal Mat or Cru	•		Recent Iron Reduc		s (C6)		Stressed Plants (D	
Iron Deposits (B			Thin Muck Surface		, (00)		Position (D2)	')
	ole on Aerial Image	-rv (B7)	Other (Explain in F	` '		Shallow Aqu		
	ated Concave Surfa		Other (Explain ii)	(cmarks)			aphic Relief (D4)	
		200 (20)				FAC-Neutra		
					Т			
Field Observations:			5 " " ' ' ' '					
Surface Water Prese		NoX	- ' '					
Water Table Present	•	NoX	- ' ')		V	N- V
Saturation Present?	Yes	NoX	Depth (inches):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	Data (stream gauge	e, monitoring well, a	erial photos, previo	ous inspections), i	f available:			
Remarks:								

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Con Stratum (Plat size: 30)	%Cover		Status	IIId(Ale ODL, FACW, OI FAC (A)
ree Stratum (Plot size: 30)	%C0vei	Species?	Status	T (J N) and an of D-mineral
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
			-	Prevalence Index worksheet:
_		= Total Cov	/er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)			Ci	OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 5 x 3 = 15
				FACU species 73 x 4 = 292
				UPL species 0 x 5 = 0
				Column Totals: (A) (B)
-				Prevalence Index = B/A = 3.94
-				
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5		_		<u> </u>
Plantago lanceolata / Ribwort, English plantain	55	Yes	FACU	2 - Dominance Test is >50%
Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	10	No	FACU	3 - Prevalence Index ≤3.0¹
Trifolium repens / White clover	8			4 - Morphological Adaptations (Provide supporting
		No No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Ranunculus acris / Acrid buttercup	5	No	<u>FAC</u>	<u> </u>
				¹ Indicators of hydric soil and wetland hydrology must
				, , ,
			-	be present, unless disturbed or problematic.
			_	
				Definitions of Vegetation Strata
D				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
l				breast height (DBH), regardless of height.
2.				Sapling/shrub - Woody plants less than 3 in. DBH and
	78	= Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size: 30)		_ = 101	Ci	
				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
_		= Total Cov	·or	Hydrophytic
		_ = 1010	Ci	Vegetation
				l Veueration
				Present? Yes No X

SOIL Sampling Point: 079-1U

Depth	Matrix		eded to document the Redox	x Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u> </u>
0-12	10YR 4/2	90	10YR 6/8	10		PL,M	Loam			
12-18	2.5Y 6/3	50	10YR 5/8	40	C	M	Loam silt			
12-18	10YR 4/2	10	-							
			-							
			-							
			-							
	entration D=Depletion	on RM=Redi	uced Matrix, MS=Mas	ked Sand Gr	ains		²l oca	tion: PI =P	ore Lining, M=	-Matrix
			acca Matrix, Me Mas		unio.					
lydric Soil Indi									ematic Hydric	
Histosol (A	,		Polyvalue Belov)) (LRR K, L, I	•
Histic Epipe	edon (A2)		Thin Dark Surfa						edox (A16) (L	
Black Histic			Loamy Mucky N		(LRR K, L)			-		(LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I					-	7) (LRR K, L	-
Stratified La	• • •		X Depleted Matrix						V Surface (S8)	
	selow Dark Surface ((A11)	Redox Dark Sui				_		ce (S9) (LRR	
	Surface (A12)		Depleted Dark S					ū	•) (LRR K, L, R)
_	cky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	yed Matrix (S4)									144A, 145, 149B
Sandy Red Stripped Ma							_	Parent Mate	enai (F21) ark Surface (Tl	E12\
	ce (S7) (LRR R, M	I DA 140B)							n Remarks)	12)
_ Dark Guria	cc (or) (Lixix ix, iii	LIVA 143D)						(Explain ii	i (Ciliaiks)	
ndicators of hy	drophytic vegetation	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
estrictive Lav	er (if observed):									
Type:	o. (oo.,.									
Depth (inche	es):						Hydric Soil P	resent?	Yes X	No
temarks:										

Project/Site:	19020 - South	Ripley	C	City/Count	v: Chau	tauqua County	Sampling Date:	08/03/2020
Applicant/Owner:			nectGen LLC	,		· · · · · · · · · · · · · · · · · · ·	Sampling Point:	079-1W
Investigator(s):	JK, R			Section To	ownship, Range:		Town of Ripley	0.0
Landform (hillslope, terrad		oot slope			/e, convex, none):			e (%): 0-5
		•			· -			` '
Subregion (LRR or MLRA			Lat:			ong: -79.6588	-	
Soil Map Unit Name:						NWI classific		PEM
Are climatic / hydrologic c	•	•	•			(If no, explain in Rem	,	
	, Soil, or Hy					rmal Circumstances" pre		X No
Are Vegetation	, Soil, or Hy	drology	naturally prob	olematic?	(If neede	ed, explain any answers	in Remarks.)	
SUMMARY OF FINE	DINGS - Attach si	ite map sh	owing samp	ling poi	int locations, tr	ransects, importar	nt features, etc.	
Hydrophytic Vegetation	Present?	Yes X	No		Is the Sampled Are	ea		
Hydric Soil Present?		Yes X	No		within a Wetland?		X No	
Wetland Hydrology Pre		Yes X	No No		If yes, optional Wet		079-PEM	_
welland Hydrology Fre	SCIIL:	163 <u>X</u>	_ 110		ii yes, optional wet	ialid Site ID.	073-F LIVI	
Remarks: (Explain alter	rnative procedures her	e or in a sepa	arate report.)					
(=:,p:::								
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min		check all tha	t apply)			Secondary Inc	licators (minimum of	two required)
X Surface Water (A1			Water-Stained L	eaves (B	9)		Soil Cracks (B6)	
High Water Table	•		Aquatic Fauna (,	• ,		Patterns (B10)	
Saturation (A3)	(112)		Marl Deposits (n Lines (B16)	
Water Marks (B1)			Hydrogen Sulfid		21)		on Water Table (C2)	
1 	o (P2)				•			
Sediment Deposits				•	n Living Roots (C3)		Burrows (C8)	(00)
Drift Deposits (B3)			Presence of Re		` ,		n Visible on Aerial Im	
X Algal Mat or Crust					Tilled Soils (C6)		or Stressed Plants (D	1)
Iron Deposits (B5)			Thin Muck Surfa				hic Position (D2)	
	on Aerial Imagery (B7	· —	Other (Explain i	n Remark	(S)		Aquitard (D3)	
Sparsely Vegetate	ed Concave Surface (B	88)				Microtope	ographic Relief (D4)	
						X FAC-Neu	tral Test (D5)	
Field Observations								
Field Observations:	0 V V	NI-	Double (in the cal	١.	4			
Surface Water Present			_ Depth (inches)		1			
Water Table Present?	Yes	_ No <u>X</u>	_ ' ` `					
Saturation Present?	Yes	_ No _ X	_ Depth (inches)):	Wetla	nd Hydrology Present	? Yes X	No
(includes capillary fring	e)							
Describe Descrided Des	ta (atroom gauge mon	itoring woll o	acrial photos pro	vious incr	acations) if available	·		
Describe Recorded Date	ta (stream gauge, mon	illoring well, a	aeriai priotos, pre	vious insp	bections), ii avallable	2 .		
Remarks:								
remarks.								

VEGETATION - Use scientific names of plants.				Sampling Point:079-1W
Tree Stratum (Plot size: 30)	Absolute %Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1				Total Number of Dominant Species Across All Strata: (B)
4	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6. 7.		= Total Cov		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:) 1. Salix / Willow 2	20	Yes		OBL species 0 x 1 = 0 FACW species 60 x 2 = 120 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0
3	_			UPL species 0 x 5 = 0 Column Totals: 85 (A) 195 (B) Prevalence Index = B/A = 2.29
7. Herb Stratum (Plot size: 5)		= Total Cov	er	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Onoclea sensibilis / Sensitive fern Osmunda cinnamomea / Cinnamon fern	30	Yes Yes	FACW FACW	X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹
Polygonum punctatum / Dotted smartweed	20	No		4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
4. Rumex crispus / Curly dock 5. Euthamia graminifolia / Flat-top goldentop 6.	15 10	No No	FAC FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9.	_			Definitions of Vegetation Strata
10. 11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.		= Total Cov		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				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3. 4.	_			Woody vines - All woody vines greater than 3.28 ft in height.
	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 079-1W

(inches) Coor (moist) \$. Coor (moist) \$. Vype* Loc* Texture Remarks	Depth	ription: (Describe to th Matrix	<u> </u>		c Features				-		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. #Iducation: PL=Pore Lining, M=Matrix. #Iducators:	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	S
Histosol (A1)	0-18	10yr 3/1	95	7.5yr 4/6	5	С	М	Loam			
Histosol (A1)					_						
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)				-							
Hydric Soil Indicators: Histosol (A1)	Type: C=Cor	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=	=Matrix.
Histosol (A1)											
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Each of Lark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes X No	-									-	
Black Histic (A3)		` '									
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thore Are Surface (A12) Thin Dark Surface (A12) Event Material (B1) Sandy Gleyed Matrix (B2) Stripped Matrix (B3) Dark Surface (B4) Dark Surface (B4) Mesic Spodic (TA6) Mesic Spodic (TA	Histic Ep	oipedon (A2)					(149B)				
Stratified Layers (A5)	Black Hi	stic (A3)		Loamy Mucky M	1ineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S3)	(LRR K, L, R)
Depleted Below Dark Surface (A11)	Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K, L	.)
Thick Dark Surface (A12)	Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Belov	/ Surface (S8)	(LRR K, L)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Clindicators 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	Depleted	d Below Dark Surface (A	\11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR	k, L)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? Yes X No	Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-I	Manganese	Masses (F12	(LRR K, L, R)
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Pindicators 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	Sandy M	Mucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	mont Flood	plain Soils (F1	9) (MLRA 149B)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plandicators 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	Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 1	144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plandicators 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	Sandy R	Redox (S5)						Red I	Parent Mat	erial (F21)	
Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No	Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (Tl	F12)
Restrictive Layer (if observed): Type:	Dark Su	rface (S7) (LRR R, ML	RA 149B)					Othe	r (Explain iı	n Remarks)	
Restrictive Layer (if observed): Type:											
Type:	³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Depth (inches): Hydric Soil Present? Yes X No	Restrictive L	ayer (if observed):									
Depth (inches): Hydric Soil Present? Yes X No		• , ,									
		ches):						Hydric Soil P	resent?	Yes X	No
Remarks:											
	Remarks:										

Project/Site:	19020 - South	n Ripley	City/Co	unty:	Chautauqua C	ounty	Sampling Date:	08/05/2020
Applicant/Owner:		ConnectG			Stat	e: New York	Sampling Point:	081-1U/080-1
Investigator(s):	JK, R		Section	, Township, Rang	_		wn of Ripley	
Landform (hillslope, terrace	e, etc):	Hill slope	Local relief (con			Convex		(%): 5
Subregion (LRR or MLRA)		ILRA 139	-	.19820669	Long:	-79.656252		
Soil Map Unit Name:			lle silt loam		_	NWI classification		
Are climatic / hydrologic co			of vear? Yes	X No	(If no. e	explain in Remark	s.)	
, ,	Soil, or Hy					umstances" prese		(No
	Soil , or Hy					n any answers in		
SUMMARY OF FIND					-	•	•	
						<u> </u>		
Hydrophytic Vegetation			X X	Is the Sample		Vaa	No. V	
Hydric Soil Present?		—		within a Wet			NoX	_
Wetland Hydrology Pres	ent?	Yes No	<u> </u>	if yes, optiona	al Wetland Site	ID:		_
Remarks: (Explain alterr Upland poi	native procedures her nt for 081-1W and 08		report.)					
HYDROLOGY								
Wetland Hydrology Ind	icatore:							
Primary Indicators (minir		· check all that ann	lv)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1)			er-Stained Leaves	(R9)	-		I Cracks (B6)	wo required)
High Water Table (A			atic Fauna (B13)	(50)			atterns (B10)	
Saturation (A3)	/		Deposits (B15)			Moss Trim L		
Water Marks (B1)			rogen Sulfide Odo	r (C1)			Water Table (C2)	
Sediment Deposits	(B2)		dized Rhizosphere		s (C3)	Crayfish Bu		
Drift Deposits (B3)	. ,		sence of Reduced	-	,		/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		ent Iron Reduction	` ,	26)		Stressed Plants (D1	. ,
Iron Deposits (B5)	,	Thin	Muck Surface (C	7)	,	Geomorphic	Position (D2)	•
Inundation Visible of	n Aerial Imagery (B7	7) Othe	er (Explain in Rem	arks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	Concave Surface (B	38)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations								
Field Observations: Surface Water Present?	Yes	No X De	onth (inches):					
Water Table Present?	Yes	_	epth (inches): epth (inches):					
Saturation Present?	Yes		epth (inches):		Wotland Hydr	ology Present?	Voc	No X
(includes capillary fringe		_ 110	pur (inches).		welland Hydro	Diogy Fresent?	Yes	NO
(includes capillary intige)							
Describe Recorded Data	ı (stream gauge, mor	nitoring well, aerial	photos, previous in	nspections), if av	ailable:			
		-						
Remarks:								
1								

SOIL Sampling Point: ____081-1U/080-1U

Profile Descr	ription: (Describe to t	the depth ne	eded to document t	he indicator	or confirm	the absence	ce of indicators	s.)		
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-15	10yr 3/2	100					Loam			
15-18	10yr 5/3	60	10yr 5/8	20	C	M	Loam			
15-28	10yr 4/2	20					Loam			
				-						
				-						
				-						
¹Type: C=Con	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ion: PL=Por	e Lining, M=Ma	atrix.
Hydric Soil Ir	ndicators:						Indicators	for Problem	natic Hydric S	oils³:
Histosol			Polyvalue Belov	w Surface (S	3) (LRR R .	MLRA 149E			(LRR K, L, ML	
	pipedon (A2)		Thin Dark Surfa	•	, .		· —		ox (A16) (LRF	
Black His	. , ,		Loamy Mucky N			,			or Peat (S3) (L	
	n Sulfide (A4)		Loamy Gleyed		(rt, L)			-	(LRR K, L)	
	I Layers (A5)		Depleted Matrix						Surface (S8) (L	RR K. L)
	Below Dark Surface ((A11)	Redox Dark Su						e (S9) (LRR K,	
	rk Surface (A12)	(* * * * *)	Depleted Dark				_		Masses (F12)	
	lucky Mineral (S1)		Redox Depress				_	-	ain Soils (F19)	
	leyed Matrix (S4)			()					6) (MLRA 14 4	
	edox (S5)							arent Mater		,,,
	Matrix (S6)								Surface (TF12	2)
	face (S7) (LRR R, M	LRA 149B)						(Explain in F		-,
		-							•	
³ Indicators of	hydrophytic vegetation	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
	hydrophytic vegetation	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
		n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive La		n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema	atic. Hydric Soil Pi	resent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		resent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La	ayer (if observed):	n and wetland	d hydrology must be p	oresent, unles	s disturbed	or problema		esent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):	n and wetland	d hydrology must be p	resent, unles	s disturbed	or problema		resent?	Yes	No X

Project/Site:	19020 - South Ripley	City/Co	unty: Chautauqu	ia County	Sampling Date: 08/05/2020
Applicant/Owner:	1 7	ConnectGen LLC		State: New York	
Investigator(s):	JK,RM	Section	Township, Range:		vn of Ripley
Landform (hillslope, terrace	e, etc): Swale		cave, convex, none):	Concave	Slope (%): 0-5
	LRR R MLRA 13		.19826434 Long:		· · · /
Soil Map Unit Name:		Ashville silt loam		NWI classificatio	
		or this time of year? Yes	X No (If r	—– no, explain in Remarks	s.)
, ,	Soil, or Hydrology	· -	`	Circumstances" prese	,
· · · · · · · · · · · · · · · · · · ·		naturally problemati		cplain any answers in	
		p showing sampling p		•	·
Hydrophytic Vegetation F			Is the Sampled Area	octo, important	
Hydric Soil Present?	Yes		within a Wetland?	Voo V	No
1				Yes X	No 081-1W PEM
Wetland Hydrology Prese	ent? Yes	X No	If yes, optional Wetland	Site ID	UO I- IVV PEIVI
Remarks: (Explain altern	ative procedures here or in a	a separate report.)			
HYDROLOGY					
Wetland Hydrology Ind	icators:				
	num of one required; check	all that apply)		Socondary Indica	tors (minimum of two required)
Surface Water (A1)		Water-Stained Leaves	(P0)	Surface Soil	
High Water Table (A		Aquatic Fauna (B13)	(Da)	Drainage Pa	
	12)			Moss Trim L	
X Saturation (A3)		Marl Deposits (B15)	r (C1)		,
Water Marks (B1)	(D2)	Hydrogen Sulfide Odo			Water Table (C2)
Sediment Deposits	(BZ)	X Oxidized Rhizosphere		Crayfish Bur	
Drift Deposits (B3)	D.4)	Presence of Reduced	` '		isible on Aerial Imagery (C9)
Algal Mat or Crust (54)	Recent Iron Reduction	• •		tressed Plants (D1)
Iron Deposits (B5)	A : 11 (DZ)	Thin Muck Surface (C			Position (D2)
	n Aerial Imagery (B7)	Other (Explain in Rem	arks)	Shallow Aqu	
Sparsely vegetated	Concave Surface (B8)				aphic Relief (D4)
				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	Yes No	X Depth (inches):			
Water Table Present?	Yes X No	Depth (inches):	13		
Saturation Present?	Yes X No	Depth (inches):	10 Wetland H	ydrology Present?	Yes No
(includes capillary fringe)) <u></u> -				<u> </u>
Describe Recorded Data	(stream gauge, monitoring)	well, aerial photos, previous i	nspections), if available:		
Remarks:					
1					

SOIL Sampling Point: ____ 081-1w/080-1W

	ription: (Describe to the	he depth nee			or confirm	the absen	ce of indicators	.)		
Depth	Matrix			x Features						
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-5	10yr 3/2	100					Losm			
5-18	2.5y 4/1	70	7.5yr 4/6	30	C	PL,M	Clay loam			
	•	· ·			· ·					_
		· ·								
	-	· ·		_						
	-				·					
		· -		_						_
	· 									
	· 	· 								
	· 		-		· ——					
	· 			_						
		. 								
¹Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand G	ains.		²Locat	ion: PL=Po	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Proble	matic Hydric	Soils ³ :
Histosol			Polyvalue Belov	v Surface (S	8) (I RR P	MI RA 149			(LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa	•	, .	•	· —	` '	dox (A16) (L l	•
Black Hi			Loamy Mucky N		(LKK N, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed						7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Su						e (S9) (LRR	
Thick Da	ark Surface (A12)		Depleted Dark \$							(LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Floodp	lain Soils (F19	9) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic	Spodic (TA	\6) (MLRA 1	44A, 145, 149B)
Sandy R	Redox (S5)						Red P	arent Mate	rial (F21)	
Stripped	Matrix (S6)						Very S	hallow Da	rk Surface (TF	·12)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other	(Explain in	Remarks)	
									·	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ss disturbed	d or problem	atic.			
Restrictive L	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pr	esent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripley	City/C	ounty: Chau	tauqua County	Sampling Date: 08/05/2020
Applicant/Owner:	1 7	ConnectGen LLC	, <u> </u>	State: New York	
Investigator(s):	RM JK	Section	n, Township, Range:	_	vn of Ripley
Landform (hillslope, terrac			ncave, convex, none):		· /
): LRR R MLRA 13			ong: -79.6561760	' ' '
Soil Map Unit Name:		Ashville silt loam		NWI classification	
· · · · · · · · · · · · · · · · · · ·	onditions on the site typical fo		X No	(If no, explain in Remark	
, ,	Soil, or Hydrology	_		mal Circumstances" prese	,
· · · · · · · · · · · · · · · · · · ·		naturally problema		ed, explain any answers in	
	INGS - Attach site ma			•	·
				-	reatures, etc.
Hydrophytic Vegetation		X No	Is the Sampled Are		
Hydric Soil Present?	Yes	X No	within a Wetland?		
Wetland Hydrology Pres	sent? Yes	X No	If yes, optional Wet	land Site ID:	PSS
Remarks: (Explain alter	native procedures here or in a	a separate report)	•		
Tromano. (Explain alter	native procedures note of in-	a coparato roporti,			
HYDROLOGY					
Wetland Hydrology Inc	dicators:				
Primary Indicators (mini	mum of one required; check	all that apply)		Secondary Indica	ators (minimum of two required)
Surface Water (A1)	Water-Stained Leave	· ,	Surface Soil	Cracks (B6)
X High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)
X Saturation (A3)		Marl Deposits (B15)		Moss Trim L	ines (B16)
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Dry-Season	Water Table (C2)
Sediment Deposits	s (B2)	X Oxidized Rhizospher	es on Living Roots (C3)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)		Presence of Reduce	d Iron (C4)	X Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust	(B4)	Recent Iron Reduction	n in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (C7)	X Geomorphic	Position (D2)
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in Re	marks)	Shallow Aqu	uitard (D3)
Sparsely Vegetate	d Concave Surface (B8)			Microtopogr	aphic Relief (D4)
				FAC-Neutra	l Test (D5)
Field Observations					
Field Observations:)	V Death (in the se)			
Surface Water Present?		' ' \			
Water Table Present?	Yes X No _	Depth (inches):	6		V V N-
Saturation Present?	Yes X No	Depth (inches):	0 Wetla	nd Hydrology Present?	Yes X No
(includes capillary fringe	?)				
Describe Recorded Dat	a (stream gauge, monitoring	well, aerial photos, previous	inspections), if available		
	- (g	, p, p	,,		
Remarks:					
1					

VEGETATION - Use scientific names of plants.				Sampling Point:081-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,
1. Malus / Apple	8	Yes		Total Number of Dominant
2.				Species Across All Strata: 4 (B)
•			 	Species / No cos / III Ottata.
1		_		Percent of Dominant Species
-		_		•
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)
6.		_		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	8	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				· — — — —
Viburnum dentatum var. dentatum / Southern arrowwood	35	Yes		FACW species x 2 = 150
2. Salix eriocephala / Missouri willow	30	Yes	FACW	FAC species 0 x 3 = 0
3. Sambucus nigra / Black elderberry	15	No	FACW	FACU species10 x 4 =40
4				UPL species 0 x 5 = 0
5				Column Totals: <u>145</u> (A) <u>250</u> (B)
6.				Prevalence Index = B/A = 1.72
7.		_		
	80	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	X 1 - Rapid Test for Hydrophytic Vegetation
1. Leersia oryzoides / Rice cutgrass	60	Yes	OBL	2 - Dominance Test is >50%
Conoclea sensibilis / Sensitive fern	15	No	FACW	X 3 - Prevalence Index ≤3.01
				4 - Morphological Adaptations (Provide supporting
3. Eupatorium perfoliatum / Common boneset	15	No No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Solidago altissima / Canada goldenrod	10	No No	FACU	
5. Verbena simplex / Narrowleaf vervain	5	No No		¹Indicators of hydric soil and wetland hydrology must
6. Convolvulus arvensis / Field bindweed, Bindweed, Orchard r		No		be present, unless disturbed or problematic.
7. Circaea ×intermedia / Enchanter's nightshade	2	No		be present, unless distarbed of problematic.
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.		_		
		= Total Cov	er	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)		_ = 10tai 00v	Ci	
• • • • • • • • • • • • • • • • • • • •				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: ____081-2W

	iption: (Describe to t	he depth ne			or confirm	the abse	nce of indicator	s.)
Depth	Matrix	0/		k Features	T 1		- .	5 .
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	2.5Y 3/2	100					Mucky clay	
4-12	2.5Y 2.5/1	92	7.5YR 5/6	8	. <u>C</u>	PL	Clayey loam	
12-18	2.5Y 4/2	98	7.5YR 5/6	2	C	PL	Clayey sandy r	Fill at 16 so some grit
				_				
¹Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	adicators:						Indicators	for Problematic Hudric Sails3:
-			Dalas alsa Dalas	0 (0	0\	MI DA 44		s for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	-			· —	Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			(149B)		t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky N		(LRR K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed I					Surface (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix					alue Below Surface (S8) (LRR K, L)
Depleted	l Below Dark Surface (A11)	X Redox Dark Sur	face (F6)			Thin I	Dark Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	Manganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedn	nont Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red F	Parent Material (F21)
Stripped	Matrix (S6)						Very	Shallow Dark Surface (TF12)
X Dark Sur	face (S7) (LRR R, ML	LRA 149B)					Other	(Explain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	recent unle	ee dieturhad	or proble	matic	
		and wettand	mydrology must be p	resent, unie	ss distuibed	or proble	Tiauc.	
	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil P	resent? Yes X No
Domarka								
Remarks:								

Project/Site:	19020 - \$	South Ripley		City/County	v:	Chautauqua (County	Sampling Date:	08/04/2020
Applicant/Owner:			nnectGen LLC	,		•	ate: New York		082-1U
Investigator(s):		RM JK		Section, To	ownship, Rang			wn of Ripley	
Landform (hillslope, terra		Hill slope	Local re		e, convex, no	· —	Convex		e (%): Gentle
Subregion (LRR or MLRA	· · ·		Lat:	-	9643644	Long:	-79.655018		` ′———
Soil Map Unit Name:	,		silt loam, 3 to 8%				NWI classification		
Are climatic / hydrologic o	conditions on the				No	(If no,	explain in Remark		
Are Vegetation			•	ly disturbed?			cumstances" prese	•	X No
	, Soil,			roblematic?	(If	needed, expla	ain any answers in		
SUMMARY OF FINI							-	•	
Hydrophytic Vegetation		Yes	No X		Is the Sampl			, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?	TT TC3CIT:	Yes X	NoX	_	within a Wet		Yes	No X	
Wetland Hydrology Pre	esent?	Yes X	No	_		al Wetland Site			_
- Violana Hydrology i re				_		ar vvotidina oite			
Remarks: (Explain alte	rnative procedure	s here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology In									
Primary Indicators (mir		uired: check all tl	hat apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A ²		anca, cricck an ti	Water-Staine	d Leaves (R	9)			l Cracks (B6)	wo required)
High Water Table	•	_	Aquatic Faun	•	<i>3</i>)			atterns (B10)	
Saturation (A3)	(142)	_	Marl Deposits	, ,			Moss Trim L		
Water Marks (B1)	1	_	Hydrogen Su		21)			Water Table (C2)	
Sediment Deposit		<u> </u>	Oxidized Rhiz			s (C3)	Crayfish Bu		
Drift Deposits (B3			Presence of I		_	3 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Crust	•	_	_		Tilled Soils (C	:6)		Stressed Plants (D	
Iron Deposits (B5)		_	Thin Muck Su		111100 00110 (0	,,,		Position (D2)	',
Inundation Visible	•	v (B7)	Other (Explai	, ,	(s)		Shallow Aqu		
Sparsely Vegetate		· · · · <u>-</u>			-,			aphic Relief (D4)	
_ , , ,		,					FAC-Neutra		
Field Observations:									
Surface Water Present	_	No X		· -					
Water Table Present?	_	NoX	_ ' '	· —				., .,	
Saturation Present?	Yes _	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	je)								
Describe Recorded Da	ata (stream gauge	, monitoring well	, aerial photos, p	orevious insp	pections), if av	ailable:			
	3.13.	,	, , ,		-,,				
Remarks:									

				Sampling Point:082-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	Illat Ale ODL, FACTY, OF FAC.
	/0C0vc1	Species:	Status	Total Number of Deminant
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		_		OBL species 5 x 1 = 5
				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 85 x 4 = 340
				UPL species 0 x 5 = 0
				Column Totals: 90 (A) 345 (B)
-				Prevalence Index = B/A = 3.83
		- 		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5				2 - Dominance Test is >50%
Potentilla argentea / Silver-leaf cinquefoil	40	Yes	FACU	3 - Prevalence Index ≤3.0¹
Hieracium caespitosum / Meadow hawkweed	30	Yes		4 - Morphological Adaptations (Provide supporting
Plantago lanceolata / Ribwort, English plantain	20	No	FACU	
Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	15	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Trifolium pratense / Red clover	10	No	FACU	
Carex vulpinoidea / Fox sedge, Brown fox sedge		No	OBL	¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
)				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
•				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
_		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size:)		-		Herb - All herbaceous (non-woody) plants, regardless of
			_	size, and woody plants less than 3.28 ft tall.
			-	Woody vines - All woody vines greater than 3.28 ft in
	_			height.
			- ——	
		= Total Cov		Hydrophytic
		_ = 10tai 00v	er	
				Vegetation
				Present? Yes No X

SOIL Sampling Point: 082-1U

Depth	ription: (Describe to the Matrix	<u> </u>		r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10YR 3/2	85	7.5YR 5/8	15		PL,M	Loam silt			
10-18	10YR 5/3	80	10YR 5/6	20	D	M	Silt loam			
	-									
	-									
T O. O.		- DM D-d	Martin MO Mart				21 4	: DI D	Lisis - M. M	A - 4
Type: C=Col	ncentration, D=Depletio	n, RIVI=Rea	uced Matrix, MS=Masi	ked Sand Gr	ains.		Locat	ion: PL=P	ore Lining, M=N	латпх.
Hydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric	Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149E	3) 2 cm N	Muck (A10) (LRR K, L, M	LRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	(149B)	Coast	Prairie Re	dox (A16) (LF	RR K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm N	Лиску Реа	t or Peat (S3)	(LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark S	Surface (S	7) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyva	alue Below	Surface (S8)	(LRR K, L)
Deplete	d Below Dark Surface (A	A11)	X Redox Dark Sur	face (F6)			Thin D	ark Surfac	ce (S9) (LRR I	<, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-M	anganese	Masses (F12)	(LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depressi	ions (F8)			Piedm	ont Flood	olain Soils (F19) (MLRA 149B)
	Sleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)								erial (F21)	
	l Matrix (S6)								rk Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	_RA 149B)					Other	(Explain ir	Remarks)	
3Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be n	recent unles	e dieturbed	or problem	atic			
maioators or		and welland	- Trydrology mast be p	TCOCITI, UTILICE		or problem	uno.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Pr	esent?	Yes X	No
Remarks:										

Project/Site:	19020 - So	outh Ripley		City/Cou	ntv:	Chautauqua (County	Sampling Date:	08/04/2020
Applicant/Owner:			nectGen LLC			•	ate: New York		082-1W
Investigator(s):		K, JM		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra			Local re		ave, convex, n		Concave		e (%): 0-5
Subregion (LRR or MLRA			Lat:	-	19636271		-79.6552643		` '
	, <u> </u>		pam, 3 to 8 per			5	NWI classification	-	PEM
Are climatic / hydrologic o						(If no,	– explain in Remark	s.)	
Are Vegetation X			•				cumstances" prese	•	X No
	, Soil , or			roblematic	? (If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINI						•	-	•	
Hydrophytic Vegetation		Yes X			Is the Samp		<u> </u>		
Hydric Soil Present?	TT TC3CITE:	Yes X	No No	_	within a We		Yes X	No	
Wetland Hydrology Pre	esent?	Yes X	No	_			e ID:		_
- Wettand Trydrology Tro		103		_	ycs, optioi	iai vvetiaria ett		OOZ IVV I LIVI	
Remarks: (Explain alte Active ha		here or in a sepa	arate report.)						
HYDROLOGY									
Wetland Hydrology Ir									
Primary Indicators (mir		red; check all tha		-11	(DO)			ators (minimum of	two required)
X Surface Water (A	•		Water-Staine		(B9)			Cracks (B6)	
High Water Table	(A2)		Aquatic Faun					atterns (B10)	
Saturation (A3) Water Marks (B1)		_	Marl Deposits Hydrogen Su	,	(C1)		Moss Trim L	Water Table (C2)	
Sediment Deposit			Oxidized Rhiz			te (C3)	Crayfish Bu		
Drift Deposits (B3	` ,		Presence of F		_	iis (C3)		riows (Co) /isible on Aerial In	nageny (CQ)
Algal Mat or Crus	•				in Tilled Soils ((C6)		Stressed Plants (D	
Iron Deposits (B5			Thin Muck Su			(00)	X Geomorphic	•	1)
_ · · · · ·	on Aerial Imagery	(B7)	Other (Explai	, ,	•		Shallow Aqu		
	ed Concave Surface		Other (Explai					aphic Relief (D4)	
		- ()					X FAC-Neutra		
									
Field Observations:									
Surface Water Present		X No		· —	1-2				
Water Table Present?		No						., .,	
Saturation Present?		No	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	_ No
(includes capillary fring	le)								
Describe Recorded Da	ıta (stream gauge, r	monitoring well,	aerial photos, p	revious in	spections), if a	vailable:			
		9	. ,,		, ,,				
Remarks: Raining									
Kailling									

Absolute Dominant Indicator Number of Dominant Species Status Total Number of Dominant Species Species Across All Strata: 1	Absolute	Number of Dominant Species That Are OBL, FACW, or FAC:	/EGETATION - Use scientific names of plants.				Sampling Point: 082-1W
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	Absolute Dominant Indicator Species Status That Ave OBL, FACW, or FAC: 1 (A)	Absolute Dominant Indicator Species Status That Ave OBL, FACK 1 (A)					Dominance Test worksheet:
Absolute Openinant Indicator Nacover Species Status	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1 (A)					
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 1 (B)	Tree Stratum Plot size: 30 %Cover Species? Status	Tree Stratum Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata: 1 (B) Species Across All Acro		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata: 1 (B)	Total Number of Dominant Species Arcos All Strats: 1 (B)	Total Number of Dominant Species Across All Strats 1 (B)	Tree Stratum (Plot size: 30)				That Are OBL, I AOW, OF IAO.
2.	Species Across All Strata: 1 (B)	Species Across All Stratus		/000101	_ орсою.	Olalas	Total Number of Dominant
A	3	3	•				
Percent of Dominant Species That Are OBL, FACW or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)					Species Across Ali Strata.
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				
Prevalence Index worksheet: Total Cover of: Multiply by:	Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total % Cover of:	· -				·
Prevalence Index worksheet: Total % Cover of: Multiply by:	Prevalence Index worksheet: Total Cover Sapling/Shrub Stratum (Plot size: 15)	Prevalence Index worksheet: Total Cover					That Are OBL, FACW, or FAC: 100.0 (A/B)
Total % Cover of: Multiply by:	Total & Cover of:	Total % Cover of:					Description of Index graphs heats
Sapling/Shrub Stratum (Plot size: 15)	Sapiling/Shrub Stratum (Plot size:	Sapiling/Shrub Stratum (Plot size:	7				
1. 2.	FACW species 2 x 2 = 4	FACW species 2 x 2 = 4		0	_ = Total Cov	er	
2. 3.	2. 3. 4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Carex vulpinoidea I Fox sedge, Brown fox sedge 60 Yes OBL 2 Lotus conticulates I Bird's foot trefoil; Bird's-foot trefoil 20 No FACU 4. Plantago lanceolata I Ribwort, English plantain 5 No FACU 5. Eupatorium perfoliatum / Common boneset 2 No FACW 6. 8. 9. 10. Woody Vine Stratum (Plot size: 30) 11. 22. 33. 44. 10. 10. 10. 11. 12. 10. 11. 12. 10. 12. 13. 14. 15. 15. 10. 14. 14. 15. 15. 10. 15. 15. 10. 17. 14. 14. 15. 16. 17. 17. 18. 18. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	2. 3. 4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Garex vulpinoidea I Fox sedge, Brown fox sedge 3. Ranunculus acris / Acrid buttercup 3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 5. Eupatorium perfoliatum / Common boneset 6. 7. 8. 9. 10. 10. 11. 11. 11. 11. 11. 11. 11. 11	Sapling/Shrub Stratum (Plot size:)				
2.	2.	2.	1				
1	A	A					
4. Colum Totals: 102 (A) 209 (B) 6. Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (B) Prevale	4.	A	3.				
Column Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 Column Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 (B) Prev	5. Column Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 In Prevalence	6. Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A = 2.05 7. O = Total Cover Herb Stratum (Plot size: 5) 1. Carex vulpinnidea / Fox sedge, Brown fox sedge 60 Yes OBL 2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 20 No FACU 3. Ranunculus acris / Acrid buttercup 15 No FACU 4. Plantago lanceolata / Ribwort, English plantain 5 No FACU 5. Eupatorium perfoliatum / Common boneset 2 No FACU 6. Colum Totals: 102 (A) 209 (B) Prevalence Index = B/A 2.05 Yes OBL 2					UPL species 0 x 5 = 0
Frevalence Index = B/A = 2.05 Prevalence Index = B/A = 2.05 Problematic Hydrophytic Vegetation Indicators of Pydrophytic Vegetation Prevalence Index = All Pydrophytic Vegetation Indicators of Pydrophytic Vegetation Prevalence Index = All Pydrophytic Vegetation Prevalence Index = All Pydrophytic Vegetation Indicators of Pydrophytic Vegetation Prevalence Index = All Pydrophytic Vegetation Pydrophytic Vegetation Indicators of Pydrophytic Vegetation Pydroph	6.	Prevalence Index = B/A = 2.05	E				Column Totals: (A) (B)
Tree - Woody Vine Stratum (Plot size:	7. Herb Stratum (Plot size: 5)	Total Coverage Tota	^				Prevalence Index = B/A = 2.05
Herb Stratum (Plot size:5)	D = Total Cover Trysting the Vegetation Tree - Woody Vine Stratum (Plot size: 30 Tree - Woody Vine Stratum (Plot size: 30 Total Cover Total Co	D = Total Cover Trystophytic Vegetation Tree - Woody Vine Stratum (Plot size:					
Herb Stratum (Plot size:	Herb Stratum (Plot size: 5 1 Carex vulpinoidea / Fox sedge, Brown fox sedge 60 Yes OBL 2 Double conficulatus / Bird's foot trefoil, Bird's-foot trefoil 20 No FACU 3 Ranunculus acris / Acrid buttercup 15 No FACU 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation (Explain) Yes Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Hydrophytic Hydrophytic Hy	Herb Stratum (Plot size: 5)	1.		- Total Cov		Hydrophytic Vegetation Indicators:
1. Carex vulpinoidea / Fox sedge, Brown fox sedge 60 Yes OBL 2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 20 No FACU 3. Ranunculus acris / Acrid buttercup 15 No FACU 4. Plantago lanceolata / Ribwort, English plantain 5 No FACU 5. Eupatorium perfoliatum / Common boneset 2 No FACW 6.	Carex vulpinoidea / Fox sedge, Brown fox sedge 60	Carex vulpinoidea / Fox sedge, Brown fox sedge 60	(5)		_ = 10(a) Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
1. Carex vulpinoidea / Fox sedge, Brown fox sedge 2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 5. Eupatorium perfoliatum / Common boneset 2. No FACW 6.	1. Carex vulpinoidea / Fox sedge, Brown fox sedge 2. Lotus corniculatus / Bird's foot trefoil Bird's-foot trefoil 20 No FACU 4. Plantago lanceolata / Ribwort, English plantain 5 No FACU 5. Eupatorium perfoliatum / Common boneset 2 No FACW 6. 7.	1. Carex vulpinoidea / Fox sedge, Brown fox sedge 2. Lotus corniculatus / Bird's foot trefoil Bird's-foot trefoil 3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 5. Eupatorium perfoliatum / Common boneset 2. No FACW 6. 7. 8. 9. 10. 10. 11. 12. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10			.,		X 2 - Dominance Test is >50%
2. Lotus comiculatus / Bird's 16 of trefoil 20 No FACU 3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. Eupatorium perfoliatum / Common boneset 2. No FACU 5. Eupatorium perfoliatum / Common boneset 6.	2. Lotus comiculator / Bird's foot trefoil, Bird's	2. Lotus comiculatus / Bird's foot trefoil, Bird's					
3. Ranunculus aeris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 6. Problematic Hydrophytic Vegetation¹ (Explain) 5. Eupatorium perfoliatum / Common boneset 6. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. July Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 13. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 14. Under the following flat in height. 15. No FACU — Problematic Hydrophytic Vegetation¹ (Explain) 10. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 5. Eupatorium perfoliatum / Common boneset 2. No FACW 6. 7.	3. Ranunculus acris / Acrid buttercup 4. Plantago lanceolata / Ribwort, English plantain 5. No FACU 5. Eupatorium perfoliatum / Common boneset 2. No FACW 6. 7. 8.	2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	20	No		
5. Eupatorium perfoliatum / Common boneset 6.	4. Plantago lanceolata i Ricivorit, English plantain 5. No FACU 6. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	4. Hantago lanceciatar i Riowort, English plantain 5. Eupatorium perfoliatum / Common boneset 6.		15	No	FAC	
1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants less than 3 in. OBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants less than 3 in. OBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	4. Plantago lanceolata / Ribwort, English plantain	5	No	FACU	Floblematic Hydrophytic vegetation (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of neight. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	5. Eupatorium perfoliatum / Common boneset	2	No	FACW	41 P. Asses of Excellent and problems by declarate mount
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? YesX No	be present, unless disturbed or problematic. Be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	6.				, , , , , , , , , , , , , , , , , , , ,
8	8	8					be present, unless disturbed or problematic.
9.	9.	9.	0				D. C. Maria at Managaria China
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. O	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	^				Definitions of Vegetation Strata
11	11	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:	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:	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:	10.				
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	11				
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	12				
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	1	1		102	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. 0 = Total Cover Hydrophytic Vegetation	2	2	Woody Vine Stratum (Plot size: 30)				
3	3	3	1				size, and woody plants less than 3.28 ft tall.
3	3	3	2				Woody vines - All woody vines greater than 3.28 ft in
4. O = Total Cover Hydrophytic Vegetation	4	4	3.				
0 = Total Cover Hydrophytic Vegetation	= Total Cover	0 = Total Cover	4.				
Vegetation	Vegetation Present? Yes X No	Vegetation Present? Yes X No		0	= Total Cov	/er	Hvdrophytic
	Present? Yes X No	Present? Yes X No				.	
100 X 100 X							
<u> </u>	Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					Fresent: 165 X NO
(— 							

SOIL Sampling Point: <u>082-1W</u>

Depth	ription: (Describe to t Matrix			x Features		455011		,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	10yr 3/2	95	7.5yr 4/6	5	С	PL,M	Loam			
4-18	2.5yr 6/2	70	7.5yr 4/6	20	C	M	Clay loam			
4-18	10yr 3/2	10								
			-							
	· · ·		-							
	· · ·		-							
	· -									
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=I	Matrix.
Hydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric	Soils ³ :
Histosol			Polyvalue Belov	v Surface (S8	8) (LRR R ,	MLRA 149) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LF	
	istic (A3)		Loamy Mucky M			-			at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed I		(7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix						V Surface (S8)	
	d Below Dark Surface (A11)	X Redox Dark Sur						ce (S9) (LRR	
	ark Surface (A12)	, ,	Depleted Dark S							(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					ū	, ,	(MLRA 149B)
	Gleyed Matrix (S4)			.00 (. 0)						44A, 145, 149B)
	Redox (S5)							Parent Mat		, , ,
	Matrix (S6)								ark Surface (TF	12)
	rface (S7) (LRR R, MI	RA 149B)							n Remarks)	,
	(e.) (= :::::,	,						. (=xp.a		
3Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive I	_ayer (if observed):									
Type:	ayer (ii observed).									
Depth (in	iches).						Hydric Soil F	Present?	Yes X	No
Берит (п							- Tryunc con t	10301111	103 _ X	
Remarks:										

Project/Site:	19020 - South Ripley	City/Coun	tv: Chautaugi	ua County	Sampling Date:	08/04/2020
Applicant/Owner:		ectGen LLC	<u></u>	State: New York		083-1U
Investigator(s):	RM JK		ownship, Range:		wn of Ripley	
Landform (hillslope, terrace, etc		· ·	ve, convex, none):	Convex	Slope	(%): Gentle
Subregion (LRR or MLRA):			9633263 Long:		· ·	` '
Soil Map Unit Name:		loam, 3 to 8% slopes	<u> </u>	NWI classification		
	ions on the site typical for this ti		. No (If	no, explain in Remark	s.)	
Are Vegetation , Soil	, or Hydrology	significantly disturbed	? Are "Normal	Circumstances" prese	ent? Yes X	(No
	, or Hydrology		(If needed, e	xplain any answers in		
	SS - Attach site map sho			•	•	
Hydrophytic Vegetation Pres	-	No X	Is the Sampled Area	, p		
Hydric Soil Present?	Yes X	No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?		No	If yes, optional Wetland			_
Trouding Try drology 1 Toolin.	100 <u>X</u>		Tryoo, optional rectains			
Remarks: (Explain alternative	e procedures here or in a separ	rate report.)				
HYDROLOGY						
Wetland Hydrology Indicat	oro:					
	ors. of one required; check all that	annly)		Socondary Indias	ators (minimum of t	vo roquirod)
X Surface Water (A1)		арргу) Water-Stained Leaves (E	20)	_	ators (minimum of to I Cracks (B6)	wo required)
High Water Table (A2)		Aquatic Fauna (B13)	59)		atterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Water Table (C2)	
Sediment Deposits (B2)		Oxidized Rhizospheres		Crayfish Bu	, ,	
Drift Deposits (B3)		Presence of Reduced Iro			/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction in			Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck Surface (C7)	1 1 11100 00110 (00)		Position (D2)	,
Inundation Visible on A		Other (Explain in Remar	ks)	Shallow Aqu		
Sparsely Vegetated Cor		- tro: (=/p.a toa.	,		aphic Relief (D4)	
				FAC-Neutra		
				_		
Field Observations:						
Surface Water Present?	Yes X No		.25			
Water Table Present?	Yes NoX	Depth (inches):				
Saturation Present?	Yes NoX	Depth (inches):	Wetland F	Hydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (str	ream gauge, monitoring well, ac	erial photos, previous ins	pections), if available:			
((gg-,	, , , , , , , , , , , , , , , , , , ,	,			
Remarks:						

Absolute Dominant Indicator Species Status Number of Dominant Species Number of Dominant	VEGETATION - Use scientific names of plants.				Sampling Point: 083-1U
Absolute					Dominance Test worksheet:
Absolute Dominant Indicator That Are OBL, FACW, or FAC: 1					
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 2		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Across All Strata; 2 (8)	Trop Stratum (Plot cize: 20)				That Are OBL, FACW, of FAC. (A)
Species Across All Strata:		76COVEI	_ Species !	Status	Total Number of Deminent
3	•				
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)					Species Across All Strata: 2 (b)
That Are OBL, FACW, or FAC: 50.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				
Prevalence Index worksheet: Total % Cover of:	· · · · · · · · · · · · · · · · · · ·				·
Prevalence index worksheet: Total X Cover of: Multiply by: Total X Cover of: Total X					That Are OBL, FACW, or FAC: 50.0 (A/B)
Total Cover of:					5 Janes Indoormalists 44
Collable	7				
FACW species 0		0	_ = Total Cov	/er	
2. 3. 4. 5. 6. 7. 8. 9. 1. Trifolium repens / White clover 1. Trifolium repens / White clover 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Ranunculus acris / Acrid buttercup 4. Trifolium ratense / Red clover 5. Plantago lanceolata / Ribwort, English plantain 6. Juneus effusus / Common bog rush, Soft or lamp rush 7. Lotus corniculatus / Bird's foot trefoil, Bird's-foot refoil 11. 11. 12. 115. = Total Cover Woody Vine Stratum (Plot size: 30 1 = Total Cover Woody Vine Stratum (Plot size: 30 1 = Total Cover FAC species 75					
2.	1				
A	2				
Column Totals: 115	3.	-			<u> </u>
Column Totals:					UPL species 0 x 5 = 0
Prevalence Index = B/A = 3.22	E				Column Totals:115 (A)370 (B)
Trifolium repens / White clover S0 Yes FACU	•				Prevalence Index = B/A = 3.22
Perb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 5 - Plantago Ianceolata / Ribwort, English plantain 10					
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index \$\infty\$. 4 - Morphological Adaptations (Provide supporting Prevalence Index \$\infty\$. 4 - Morphological Adaptations (Provide supporting Prevalence Index \$\infty\$. 4 - Morphological Adaptations (Prevalence Index \$\in	1.		- Total Cov	·or	Hydrophytic Vegetation Indicators:
1. Trifolium repens / White clover 2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Ranunculus acris / Acrid buttercup 15 No FAC 4. Trifolium pratense / Red clover 10 No FACU 5. Plantago lanceolata / Ribwort, English plantain 6. Juncus effusus / Common bog rush, Soft or lamp rush 7. Lotus comiculatus / Bird's foot trefoil, Bird's-foot trefoil 8. 9. 10. 11. 12. 12. 13. Prevalence lndex ≤3.0¹ 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 4. Woody vines - All woody vines greater than 3.28 ft in height. 10. 11. 12. 13. 14. 15. Trifolium pretense / Red clover 15. No FACU 16. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Present? Yes NoX	Hart Otration (District)		_ = 10tai 00v	er	1 - Rapid Test for Hydrophytic Vegetation
2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Ranunculus acris / Acrid buttercup 4. Trifolium pratense / Red clover 5. Plantago lanceolata / Ribwort, English plantain 6. Juncus effusus / Common bog rush, Soft or lamp rush 7. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 8. 9.		50	Van	54011	2 - Dominance Test is >50%
2. Carex vulpinoidea / Fox sedge, Brown fox sedge 3. Ranunculus acris / Acrid buttercup 4. Trifolium pratense / Red clover 5. Plantago lanceolata / Ribwort, English plantain 6. Juncus effusus / Common bog rush, Soft or lamp rush 7. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 8. 9. 10. 11. 12. 12. 115 = Total Cover Woody Vine Stratum (Plot size: 30) 1. 2. 3.					3 - Prevalence Index ≤3.0¹
Annoulus acris / Acrid buttercup 15					
4. Implium pratense / Red clover 5. Plantago lanceolata / Ribwort, English plantain 6. Juncus effusus / Common bog rush, Soft or lamp rush 7. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 8.			_		1 -
Suncus effusus / Common bog rush, Soft or lamp rush 5			No	FACU_	
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata	5. Plantago lanceolata / Ribwort, English plantain	10	No	FACU	1Indicators of hydric soil and wetland hydrology must
7. Lotus comiculatus / Bird's foot trefoil, Bird's-foot trefoil 8	6. Juncus effusus / Common bog rush, Soft or lamp rush	5	No	OBL	
9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. 10. 115 = Total Cover Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	7. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	5	No	FACU	be present, unless disturbed of problematic.
9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. 10. 115 = Total Cover Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X	8.				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes NoX	^				Deminions of Vegetation of the
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation					Tree Weeds plants 2 in (7.6 cm) or more in diameter at
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:	11		_		
Woody Vine Stratum (Plot size:30) 1	12				
Woody Vine Stratum (Plot size:30) 1	12.		- Total Cov		, , ,
1	Woody Vino Stratum (Plot size: 30)		_ = 10(a) 001	EI	
2					, ,,,
3					1
4	2				
0 = Total Cover Hydrophytic Vegetation Present? Yes No X	3				height.
Vegetation Present? Yes NoX	4				
Present? Yes No X		0	_ = Total Cov	/er	
					Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate report.)					

SOIL Sampling Point: 083-1U

Depth	Matrix			k Features	0. 00	uio abooii	ce of indicators	,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-10	10YR 4/1	95	5YR 4/6	5	С	PL,M	Loam clay	
10-18	10YR 5/3	60	7.5YR 5/6	40	С	M	Loam clay	
			-					
Type: C=Cen	 acentration, D=Depletion		Lood Matrix, MC=Mack	rod Cond Cr			21 000	tion: DI -Doro Lining M-Matrix
Type: C=Cor	icentration, D=Depletion	1, RIVI=Real	uced Matrix, M5=Mask	kea Sana Gr	ains.		Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil II	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below	v Surface (S8	3) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	A 149B)	Coast	Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	LRR K, L)		5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyv	alue Below Surface (S8) (LRR K, L)
Depleted	I Below Dark Surface (A	(11)	X Redox Dark Sur	face (F6)			Thin [Dark Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depressi	ions (F8)				nont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be pi	resent. unles	s disturbed	or problem	natic.	
	, , , ,		, 0, 1			·		
	// L D							
	ayer (if observed):							
Туре:							Hydric Soil P	resent? Yes Y No
			<u> </u>				Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc			<u></u>				Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type:							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No
Type: Depth (inc							Hydric Soil P	resent? Yes X No

Project/Site:	19020 - S	South Ripley		City/Cou	ntv:	Chautauqua (County	Sampling Date:	08/04/2020
Applicant/Owner:			onnectGen LLC	,		•	ate: New York		083-1W
Investigator(s):		JK, JM		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra		,	Local re		ave, convex, n		Concave		e (%): 0-5
Subregion (LRR or MLR			Lat:	•	19614427	Long:	-79.6522804		` '
Soil Map Unit Name:	, <u> </u>		t loam, 3 to 8 per			5	NWI classification		PEM
Are climatic / hydrologic						(If no,	explain in Remark		
Are Vegetation X			•				cumstances" prese	•	X No
	, Soil , o			roblematic	? (If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN						•	-	•	
Hydrophytic Vegetatio		Yes X			Is the Samp		<u> </u>		
Hydric Soil Present?	TIT TOSCITE	Yes X		_	within a We		Yes X	No	
Wetland Hydrology Pr	resent?	Yes X		_			e ID:		_
- Welland Hydrology 11		165		_	ycs, optioi	iai vvetiaria ett		OOO TWY I EIVI	
Remarks: (Explain alte Mowed h		s here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology I		.:	414 1· · · ·				0	-4 (i-i	:
Primary Indicators (mi		irea; cneck all t		d Lagyas ((DO)			ators (minimum of	two required)
X Surface Water (A High Water Table	•	_	Water-Staine Aquatic Faun	•	(Б9)			l Cracks (B6) atterns (B10)	
Saturation (A3)	; (AZ)	_	Marl Deposits				Moss Trim L		
Water Marks (B1)	_	Hydrogen Su	` ,	(C1)			: Water Table (C2)	1
Sediment Depos	•	-	X Oxidized Rhiz			its (C3)	Crayfish Bu		
Drift Deposits (B3	. ,		Presence of I	· ·	-	13 (00)		/isible on Aerial In	nagery (C9)
Algal Mat or Crus	•	_			in Tilled Soils ((C6)		Stressed Plants (D	
Iron Deposits (B5		_	Thin Muck Su			,00)	X Geomorphic	-	.,
I —	e on Aerial Imagery	y (B7)	Other (Explai	, ,	•		Shallow Aqu		
	ted Concave Surfac	_	_ ` ` .		,			aphic Relief (D4)	
_ ` ` ` `							X FAC-Neutra	l Test (D5)	
Field Observations:	-40 V	V N-	Donath (in all		0.0				
Surface Water Present	_	X No	' ` `	· —	0-2				
Water Table Present?	_	X No	' '	· —	<u> </u>	Matlemat Head	ualamı Duaaaut?	Vaa V	Na
Saturation Present?	Yes _	NoX	Depth (inch	es):		wetiand Hyd	rology Present?	Yes X	_ No
(includes capillary frin	ge)								
Describe Recorded Da	ata (stream gauge,	, monitoring wel	II, aerial photos, p	orevious in:	spections), if a	vailable:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 083-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are ORL FACING or FACING (A)
Tree Stratum (Plot size:30)	Absolute %Cover	Dominant Species?	Indicator Status	That Are OBL, FACW, or FAC: 1 (A)
1.	/600.0.	_ ороског.	Oluluo	Total Number of Dominant
2.				Species Across All Strata:1 (B)
3.				
4				Percent of Dominant Species
56.				That Are OBL, FACW, or FAC: 100.0 (A/B)
7.		_		Prevalence Index worksheet:
	0	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)		_		OBL species 65 x 1 = 65
1				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30 FACU species 40 x 4 = 160
3.				UPL species 0 x 5 = 0
45.				Column Totals: 115 (A) 255 (B)
6.				Prevalence Index = B/A = 2.22
7.				U. I. aliasia Manadala Indiadana
	0	= Total Cov	ver	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				X 2 - Dominance Test is >50%
Carex vulpinoidea / Fox sedge, Brown fox sedge	60	Yes	OBL	X 3 - Prevalence Index ≤3.01
2. Trifolium repens / White clover	20	No No	FACU	4 - Morphological Adaptations (Provide supporting
3. Plantago lanceolata / Ribwort, English plantain		No No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Ranunculus acris / Acrid buttercup	<u>10</u> 5	No No	_ FAC	
5. Lycopus americanus / Bugleweed		No	OBL	¹ Indicators of hydric soil and wetland hydrology must
6. 7.				be present, unless disturbed or problematic.
7. 8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11		_ 		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	115	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30) 1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
34.		_		height.
4.		= Total Cov		Hydrophytic
		_ 1010.00.	Ci	Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

Depth	ription: (Describe to the Matrix			k Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10yr 4/1	90	7.5yr 5/8	10	С	PL,M	Silt Ilam			
8-18	10yr 5/1	75	7.5yr 5/6	25	C	M	Clay/Loam			
	- <u></u>									
	- <u></u>									
	 						-			
	 						-			
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicator	s for Prob	lematic Hydric	Soils3:
Histosol			Polyvalue Belov	v Surface (St	8) (LRR R .	MLRA 149) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (Li	-
	istic (A3)		Loamy Mucky N			-				(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		(=: \:\ I L)			-	67) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	
	d Layers (A5) d Below Dark Surface (A	۸11)	Redox Dark Sui						ice (S9) (LRR	
		~11 <i>)</i>	Depleted Dark Sui							
	ark Surface (A12) /lucky Mineral (S1)		Redox Depress					-) (LRR K, L, R)
	, , ,		Redux Depless	ions (Fo)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								terial (F21)	-40)
	Matrix (S6)	DA 440D)							ark Surface (TF	-12)
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Otne	r (Expiain i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	l or problem	natic.			
				-		·				
	_ayer (if observed):									
Type:									., .,	
Depth (in	iches):						Hydric Soil F	resent?	Yes X	No
Remarks:										

Project/Site:	19020 -	South Ripley		City/Count	tv:	Chautauqua (County	Sampling Date:	08/04/2020
Applicant/Owner:			onnectGen LLC			•	ate: New York		083-2U
Investigator(s):		RM JK		Section, To	ownship, Ran			wn of Ripley	
Landform (hillslope, terra	ace, etc):	Flat	Local re		ve, convex, no		Convex		e (%): Gentle
Subregion (LRR or MLR.	· · · —	R R MLRA 139	Lat:	-	9952518	Long:	-79.653237		` '
Soil Map Unit Name:	•	Eri	e silt loam, 3-8%	slopes		_	NWI classification	on:	
Are climatic / hydrologic	conditions on the	site typical for th	nis time of year?	Yes X	No	(If no,	explain in Remark	s.)	
Are Vegetation	, Soil ,	or Hydrology	significantl	y disturbed?	? Ai		cumstances" prese		X No
	, Soil ,					needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map	showing sam	npling po	int locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetatio		Yes	No X		Is the Sample		,	•	
Hydric Soil Present?		Yes X		_	within a Wet		Yes	No X	
Wetland Hydrology Pr	esent?	Yes X		_		al Wetland Site			_
Wolland Hydrology 1 1				_		ur vvollaria olic			
Remarks: (Explain alte	ernative procedur	es here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology I									
Primary Indicators (mi		juired; check all t		/5				ators (minimum of	iwo required)
Surface Water (A	,	_	Water-Staine	•	39)			I Cracks (B6)	
High Water Table	(A2)	_	Aquatic Faun	, ,				atterns (B10)	
Saturation (A3)	`	_	Marl Deposits		C4\		Moss Trim L	, ,	
Water Marks (B1)	•		Hydrogen Su			- (02)		Water Table (C2)	
Sediment Deposi			X Oxidized Rhiz		_	s (C3)	Crayfish Bu		
Drift Deposits (B3	•	_	Presence of I			26)		/isible on Aerial Im	
Algal Mat or Crus Iron Deposits (B5		_	Thin Muck Su		Tilled Soils (0	JO)		Stressed Plants (D c Position (D2)	1)
Inundation Visible	•		Other (Explai	, ,	ke)		Shallow Aqu		
Sparsely Vegetat	_		Other (Explai	II III IXCIIIAIN	10)			raphic Relief (D4)	
oparacry vegetat	ca concave can	dec (Be)					FAC-Neutra		
					1				
Field Observations:									
Surface Water Presen	it? Yes	NoX		es):					
Water Table Present?	Yes	NoX	` `	·					
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	ge)								
Deceribe Decerded De			ll coriol photon r		nastions) if a	railahlar			
Describe Recorded Da	ata (stream gauge	a, monitoring wei	ıı, aeriai priotos, p	previous insp	pections), if av	/allable:			
Remarks:									
1									

VEGETATION - Use scientific names of plants.				Sampling Point: 083-2U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Populus tremuloides / Quaking aspen	15	Yes	FACU	Total Number of Dominant
2. Acer rubrum / Red maple	8	Yes	FAC	Species Across All Strata: 6 (B)
3. Malus / Apple	2	No	-	(//
4. Prunus pensylvanica / Pin cherry	2	No	FACU	Percent of Dominant Species
5.			- 	That Are OBL, FACW, or FAC: 50.0 (A/B)
6.			- <u></u>	
7.				Prevalence Index worksheet:
	27	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1. Rosa multiflora / Multiflora rose, Multiflora rosa	15	Yes	FACU	FACW species 70 x 2 = 140
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FAC species 23 x 3 = 69
3. Rubus allegheniensis / Allegheny blackberry	8	No	FACU	FACU species 80 x 4 = 320
4. Lonicera morrowii / Morrow's honeysuckle	5	No	FACU	UPL species 0 x 5 = 0
5. Acer rubrum / Red maple	5	No	FAC	Column Totals: <u>173</u> (A) <u>529</u> (B)
6. Salix / Willow	5	No		Prevalence Index = B/A = 3.06
7.			- (Hadronko & Wanshallon India dana.
	48	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_"		1 - Rapid Test for Hydrophytic Vegetation
Doellingeria umbellata / Parasol white-top	60	Yes	FACW	2 - Dominance Test is >50%
2. Potentilla argentea / Silver-leaf cinquefoil	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Athyrium filix-femina / Common ladyfern	10	No	FAC	4 - Morphological Adaptations (Provide supporting
4. Poa pratensis / Kentucky blue grass	5	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5.			- (Aladiantana of budda and and under a budda lancount
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.			- (Definitions of Vegetation Strata
9.			- (Dominions of Togotation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			- <u></u>	breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	105	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_"		Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: ____083-2U

Depth Mark: Redox Features	D (1		ne aeptn ne	eded to document th		or confirm	the abser	ice of indicator	rs.)
0-14	Depth (inches)	Matrix	0/			T 1	12	Territor	Damada
0-14	<u> </u>				. ——				Remarks
14-18		10YR 4/2	70		. ——	C			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Minneral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Minneral (S1) Sandy Redox (A15) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Thick Dark Surface (A12)	-				. ——				Concretions
Trype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ### Hydric Soil Indicators: Histosol (A1)	-			10YR 5/6	10		<u>M</u>		_
Hydric Soil Indicators: Histosol (A1)	14-18	10YR 6/4	50					Loam silt	
Hydric Soil Indicators: Histosol (A1)									-
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)					<u> </u>				
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Histosol (A1)	¹Type: C=Cor	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Mask	ed Sand Gr	ains.		²Loc	ation: PL=Pore Lining, M=Matrix.
Histosol (A1)	Hydric Soil II	ndicators:						Indicator	s for Problematic Hydric Soils ³ :
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Tion-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Tion-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149B) Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes X No				Polyvalue Below	Surface (S	8) (LRR R.	MLRA 149		_
Black Histic (A3)					•	,		· —	, , , , , , , , , , , , , , , , , , , ,
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Lron-Manganese Masses (F12) Mesic Spodic (TA6) Mesic Spodic (TA6) Mesic Spodic (TF12) Depleted Matrix (S6) Dark Surface (S7) Lron-Manganese Masses (F12) Mesic Spodic (TA6) Mesic S							,		. ,
Stratified Layers (A5)						(···· ···,)			
Depleted Below Dark Surface (A11)									
Thick Dark Surface (A12)		• • •	۸11)						
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) All other (Explain in Remarks)			ATT)						
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Plindicators 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									
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Plindicators 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		•		Redox Depressi	ons (F8)				
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No		• • • •							
Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									
3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No									
Restrictive Layer (if observed): Type:	Dark Sui	face (S7) (LRR R, MI	-RA 149B)					Othe	r (Explain in Remarks)
Restrictive Layer (if observed): Type:	³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be pr	esent, unles	ss disturbed	or problen	natic.	
Type:				, 0, .			· 		
Depth (inches): Hydric Soil Present? Yes X No		ayer (ii observeu).							
	• • • • • • • • • • • • • • • • • • • •	ah a a \.						Uludaia Cail I	Dranaut2 Von V No
Remarks:	Depth (in	cnes):						Hydric Soil F	resent? Yes X NO
	Remarks:								
	remarks.								

Project/Site:	19020 - S	South Ripley		City/County	/ :	Chautauqua C	County	Sampling Date:	08/04/2020
Applicant/Owner:			ConnectGen LLC					Sampling Point:	083-2W
Investigator(s):		IK, RM		Section, Tov	wnship, Rang			wn of Ripley	
Landform (hillslope, terrad			Local r		e, convex, noi		Concave		(%): 0
Subregion (LRR or MLRA				•	942283	Long:	-79.652765		(/
Soil Map Unit Name:					0 12200		NWI classification		PSS
Are climatic / hydrologic o					No	(If no	explain in Remark		
, ,	, Soil, o		•	ly disturbed?		` ′	cumstances" prese	,	X No
· · · · · · · · · · · · · · · · · · ·			naturally p				in any answers in		<u> </u>
					-		-	•	
SUMMARY OF FINE	DINGS - Attac	n site map			nt location	is, transec	ts, important	reatures, etc.	
Hydrophytic Vegetation	Present?	Yes	X No		is the Sample	ed Area			
Hydric Soil Present?		Yes	X No	v	within a Wetl	and?	Yes X	No	=
Wetland Hydrology Pre	esent?	Yes	X No		lf yes, optiona	l Wetland Site	ID:	083-2W PSS	
Remarks: (Explain alter	rnative procedures	s here or in a	separate report.)						
HYDROLOGY									
	diantaus.								
Wetland Hydrology In							0		
Primary Indicators (min	•	ired; check a						ators (minimum of t	wo required)
X Surface Water (A1	,			d Leaves (B9	9)			il Cracks (B6)	
X High Water Table	(A2)		Aquatic Faur					atterns (B10)	
X Saturation (A3)			Marl Deposit	s (B15)			Moss Trim I	Lines (B16)	
Water Marks (B1)			Hydrogen Su	Ilfide Odor (C	:1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposit	s (B2)		Oxidized Rhi	zospheres on	Living Roots	(C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3))		Presence of	Reduced Iron	n (C4)		Saturation \	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust	t (B4)		Recent Iron I	Reduction in 1	Tilled Soils (C	6)		Stressed Plants (D	
Iron Deposits (B5)			X Thin Muck S			- /	X Geomorphic	•	,
Inundation Visible		/ (B7)		in in Remarks	3)		Shallow Aq		
Sparsely Vegetate					-,			raphic Relief (D4)	
)O (DO)					FAC-Neutra		
oparacity vegetate	ou comouve curia								
Operacity vegetate					-				
Field Observations:	- Constant Curia								
		X No	Depth (inch	es):	3			21 1001 (20)	
Field Observations: Surface Water Present			Depth (inch	· -	3				
Field Observations: Surface Water Present Water Table Present?	? Yes _ Yes _	X No	Depth (inch	es): 2	2	Vetland Hydr	_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present?	? Yes _ Yes _ Yes _			es): 2	2	Wetland Hydr	ology Present?	YesX	No
Field Observations: Surface Water Present Water Table Present?	? Yes _ Yes _ Yes _	X No	Depth (inch	es): 2	2	Wetland Hydr	_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present?	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	? Yes _ Yes _ Yes _ e)	X No X No	Depth (inch	es): 2	2 0		_		No

GETATION - Use scientific names of plants.				Sampling Point:083-2W
•				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
ree Stratum (Plot size: 30)	%Cover	Species?	Status	
. Tsuga canadensis / Eastern hemlock	10	Yes	FACU	Total Number of Dominant
. Acer rubrum / Red maple	10	Yes	FAC	Species Across All Strata: 7 (B)
. Ulmus americana / American elm		Yes	FACW	openica norosa nii otidid.
				Percent of Dominant Species
·				·
•		_		That Are OBL, FACW, or FAC: 57.1 (A/E
·				Prevalence Index worksheet:
· · ·	30	_ = Total Cov	er	
apling/Shrub Stratum (Plot size:)				
. Salix / Willow	50	Yes		FACW species 100 x 2 = 200
. Cornus amomum / Silky dogwood	30	Yes	FACW	FAC species 20 x 3 = 60
. Ulmus americana / American elm	10	No	FACW	FACU species 10 x 4 = 40
. Acer rubrum / Red maple	10	No	FAC	UPL species 0 x 5 = 0
•				Column Totals: 130 (A) 300 (E
				Prevalence Index = B/A = 2.31
·		T-tal Cov		Hydrophytic Vegetation Indicators:
	100	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
. Osmunda cinnamomea / Cinnamon fern	40	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
. Onoclea / Sensitive fern	20	Yes		4 - Morphological Adaptations (Provide supporting
. Equisetum sylvaticum / Woodland horsetail	10	No	FACW	
. Aster / Aster	10	No		Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
0.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	80	= Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size:)	=	_		Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
		_		
				Woody vines - All woody vines greater than 3.28 ft in height.
·				neight.
·		T-1-1 Cov		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 083-2W

0-2 2-8	Matrix		Redox	k Features						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarl	ks
2-8	10yr 2/1	100					Loamy Muck			
	5y 3/1	98	2.5 y 5/6	2	<u>C</u>	M	Clay Loam			
8-20	5y 5/1	90	2.5 y5/6	10	C	M	Clay			
			-		· -					
		·	-	_	· —— ·					
					· —— ·					
 .		· ——	-	_						
					· -			-		
			-							
				-	· ·					
ype: C=Cond	centration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	rains.		²Loca	tion: PL=P	ore Lining, M	∕I=Matrix.
dric Soil Inc	dicators:						Indicators	for Probl	ematic Hydr	ric Soils³:
_ Histosol (A	A1)		Polyvalue Belov	v Surface (S	8) (LRR R,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L	, MLRA 149B)
Histic Epir	pedon (A2)		X Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	149B)				(LRR K, L, R)
_ Black Hist			Loamy Mucky N		(LRR K, L)					3) (LRR K, L, R)
_	Sulfide (A4)		Loamy Gleyed I						7) (LRR K,	
	Layers (A5)	(44)	X Depleted Matrix						•	3) (LRR K, L)
_	Below Dark Surface (A11)	Redox Dark Sur				· · · · · · · · · · · · · · · · · · ·		ce (S9) (LR	
_	k Surface (A12) ucky Mineral (S1)		Depleted Dark S Redox Depress					-	-	12) (LRR K, L, R) ⁻ 19) (MLRA 149B)
_	eyed Matrix (S4)		Nedox Depress	10113 (1 0)			· · · · · · · · · · · · · · · · · · ·			144A, 145, 149B
Sandy Re									erial (F21)	. 140, 140, 1402
_	Matrix (S6)								ark Surface (TF12)
	ace (S7) (LRR R, MI	LRA 149B)							n Remarks)	,
_							_			
ndicators of h	ydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ss disturbed	or probler	natic.			
	yer (if observed):									
Type:									.,	
Depth (inch	nes):						Hydric Soil P	esent?	Yes>	K No
emarks:										

Project/Site:	19020 - S	South Ripley		City/Count	ty:	Chautauqua	County	Sampling Date:	08/05/2020
Applicant/Owner:			nnectGen LLC	,	-		State: New York		084-1U
Investigator(s):		JK, RM		Section, To	ownship, Rang			own of Ripley	-
Landform (hillslope, terrac		•	Local re		ve, convex, no		Concave		e (%): 5-8
Subregion (LRR or MLRA			Lat:		0220149	Long:			`
Soil Map Unit Name:			Busti silt loan				NWI classificat		
Are climatic / hydrologic c	onditions on the s	site typical for th			No	(If no	o, explain in Remar		
Are Vegetation		,,	,			`	ircumstances" pres	•	X No
	, Soil, c						olain any answers i		<u> </u>
SUMMARY OF FINE		·					-	•	
							oto, important	10010100, 010.	
Hydrophytic Vegetation	Present?	Yes			Is the Sample		V	N- V	
Hydric Soil Present?		Yes		_	within a Wetl		Yes	NoX	_
Wetland Hydrology Pres	sent?	Yes	NoX	_	If yes, optiona	ii vvetiand Si	Ite ID:		-
Remarks: (Explain alter 084-1U	native procedure	s here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology Inc	dicators:								
Primary Indicators (min		iired: check all tl	hat annly)				Secondary India	cators (minimum of	two required)
Surface Water (A1		incu, cricok an u	Water-Staine	d Leaves (B	89)			oil Cracks (B6)	two required)
High Water Table (,	_	Aquatic Faun	`	,,,			Patterns (B10)	
Saturation (A3)	(1 L)	_	Marl Deposits					Lines (B16)	
Water Marks (B1)		_	Hydrogen Su		C1)			n Water Table (C2)	
Sediment Deposits	s (B2)	_		•	on Living Roots	: (C3)		urrows (C8)	
Drift Deposits (B3)		_	Presence of F	•	-	(00)		Visible on Aerial Im	agery (C9)
Algal Mat or Crust		_	_		Tilled Soils (C	:6)	_	Stressed Plants (D	
Iron Deposits (B5)		_	Thin Muck Su		1 111100 00113 (0	.0)		ic Position (D2)	1)
Inundation Visible		v (B7)	Other (Explai		ke)			uitard (D3)	
Sparsely Vegetate		· · · · —	_ Outer (Explai	ii iii i toiliali	(0)			graphic Relief (D4)	
oparody vogetate	a concavo cana	00 (20)						al Test (D5)	
									
Field Observations:									
Surface Water Present?	_		Depth (inch	-					
Water Table Present?	Yes _		Depth (inch	· —					
Saturation Present?	Yes _	NoX	Depth (inch	es):		Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe	e)								
Describe Recorded Dat	ta (stream gauge.	. monitoring well	l. aerial photos. p	revious inst	pections), if av	ailable:			
	a (on oan gaago,	,	,, aoa. po.o., p		pootio::0), a.				
Remarks:									
Ĭ									

VEGETATION - Use scientific names of plants.				Sampling Point: 084-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Prunus serotina / Black cherry	40	Yes	FACU	Total Number of Dominant
2. Acer saccharum / Sugar maple	20	Yes	FACU	Species Across All Strata: 4 (B)
3. Quercus rubra / Northern red oak	20	Yes	FACU	
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7				Prevalence Index worksheet:
	80	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1. Acer saccharum / Sugar maple	30	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3		_		FACU species 110 x 4 = 440
4				UPL species 0 x 5 = 0
5				Column Totals: (A) (A) (B)
6	_			Prevalence Index = B/A = 4.0
7				Hydrophytic Vegetation Indicators:
	30	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1		_		3 - Prevalence Index ≤3.0¹
2		_		4 - Morphological Adaptations (Provide supporting
3		_		Problematic Hydrophytic Vegetation¹ (Explain)
4				1 Toblematio 1 Jurophytic Vogetation (Explain)
5		_		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				25 process, amous alocalous or prosistinguo.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11	_			breast height (DBH), regardless of height.
12	_			Sapling/shrub - Woody plants less than 3 in. DBH and
	0	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1			<u> </u>	size, and woody plants less than 3.28 ft tall.
2.			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
3	_			height.
4				Hadron badis
	0	_ = Total Cov	er	Hydrophytic
				Vegetation No. X
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			
, , , , , , , , , , , , , , , , , , ,	/			

SOIL Sampling Point: <u>084-1U</u>

	Matrix		Redo	x Features			e of indicators.)				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ L	OC ²	Texture		Remark	KS	
0-5	7.5yr 3/1	10					Loam				
5-18	10yr 3/6	10					Loam				
		-									
Type: C=Cor	ncentration, D=Depletion	n, RM=Redi	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Locatio	n: PL=Pore	e Lining, M	1=Matrix.	
Hydric Soil I	ndicatore:						Indicators fo	r Problem	atic Hydr	ic Soile3:	
			Dobarduo Polo	v Curtoso /C) (I DD D MI D	A 440B			-		OB\
Histosol	• •		Polyvalue Belov							, MLRA 14	-
	oipedon (A2)		Thin Dark Surfa			ъ)				LRR K, L,	
Black Hi			Loamy Mucky N		LKK N, L)					3) (LRR K,	L, K)
	en Sulfide (A4)		Loamy Gleyed						(LRR K,	L) 3) (LRR K,	
	d Layers (A5)	.44\	Depleted Matrix						•	, .	L)
	d Below Dark Surface (A	(11)	Redox Dark Su						(S9) (LR		/ I D\
	ark Surface (A12)		Depleted Dark					-	-	2) (LRR	
	Mucky Mineral (S1)		Redox Depress	ions (F8)						19) (MLR	
	Gleyed Matrix (S4)							-		144A, 145	i, 149B)
	Redox (S5)							ent Materi		TE40)	
	Matrix (S6)	DA 440D\							Surface (1 F 12)	
Dark Su	rface (S7) (LRR R, ML	KA 149B)					Other (E	xplain in F	temarks)		
³Indicators of	hydrophytic vegetation a	and wetland	d hydrology must be p	resent. unles	s disturbed or p	roblema	tic.				
					<u>'</u>						
Restrictive L	.ayer (if observed):										
T							Undeia Cail Deaa	42	Vaa	Na	V
Type:	-l \·						Hydric Soil Pres	ent?	Yes	NO	X
Type: Depth (in	ches):										
	ches):										
Depth (in	ches):										
Depth (in	ches):										
Depth (in	ches):										
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Depth (in	ches):										
Depth (in	ches):										

Project/Site:	19020 - Sout	h Ripley	City/Cou	inty:	Chautauqua C	County	Sampling Date:	08/05/2020
Applicant/Owner:		Connec	tGen LLC			te: New York		084-1W
Investigator(s):	JK, ,			Township, Ran			vn of Ripley	
Landform (hillslope, terrac	· · · · · · · · · · · · · · · · · · ·	Lowland	Local relief (conc			Concave		(%): 0-2
Subregion (LRR or MLRA				20165435	Long:	-79.7107928		`
Soil Map Unit Name:			hville silt loam			NWI classification		PSS
Are climatic / hydrologic c				X No	(If no	explain in Remark		
, ,	, Soil, or Hy				` ′	umstances" prese	,	(No
			_e.gearly dietarse naturally problemation			in any answers in		<u> </u>
SUMMARY OF FINE					•	•	•	
		-				is, important	icatares, etc.	
Hydrophytic Vegetation	Present?		No	Is the Sampl				
Hydric Soil Present?			No	within a Wet		Yes X	_	_
Wetland Hydrology Pre	sent?	Yes X	No	If yes, option	al Wetland Site	ID:	084-1W PSS	
Remarks: (Explain alter	rnative procedures he	ere or in a separa	te report)	•				
Tromanion (Explain alto	man o procedures no		,					
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min	imum of one required	l; check all that a	pply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1)		/ater-Stained Leaves	(B9)		Surface Soil	Cracks (B6)	
High Water Table ((A2)	A	quatic Fauna (B13)			X Drainage Pa	atterns (B10)	
Saturation (A3)		N	larl Deposits (B15)			Moss Trim L	ines (B16)	
Water Marks (B1)		H	ydrogen Sulfide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	c	xidized Rhizospheres	on Living Root	s (C3)	Crayfish Bur		
Drift Deposits (B3))	P	resence of Reduced I	ron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	R	ecent Iron Reduction	in Tilled Soils (0	C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		т	hin Muck Surface (C7	")		X Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B	7) C	ther (Explain in Rema	arks)		Shallow Aqu	ıitard (D3)	
Sparsely Vegetate	d Concave Surface (I	B8)				Microtopogra	aphic Relief (D4)	
						FAC-Neutral	l Test (D5)	
Field Observations								
Field Observations:	O Voe	No. V	Donth (inches)					
Surface Water Present			Depth (inches):	_				
Water Table Present?	Yes		Depth (inches):		\A/-4	D 10	V V	NI-
Saturation Present?	Yes	NoX	Depth (inches):		wetiand Hydr	ology Present?	Yes X	No
(includes capillary fring	e)							
Describe Recorded Dat	ta (stream gauge, mo	nitoring well, aer	ial photos, previous in	spections). if a	/ailable:			
	(gg.,		р	,,,,				
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:084-1W
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 6 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Malus / Apple	20	Yes		Total Number of Dominant
2. Acer rubrum / Red maple	10	Yes	FAC	Species Across All Strata: 9 (B)
3.				
4	_			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.7 (A/B)
6				
7				Prevalence Index worksheet:
	30	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15				OBL species 0 x 1 = 0
1. Cornus amomum / Silky dogwood	20	Yes	FACW	FACW species 75 x 2 = 150
2. Rosa multiflora / Multiflora rose, Multiflora rosa	20	Yes	FACU	FAC species 60 x 3 = 180
3. Lonicera morrowii / Morrow's honeysuckle	20	Yes	<u>FACU</u>	FACU species 40 x 4 = 160 UPL species 0 x 5 = 0
4				
5				Column Totals: 175 (A) 490 (B) Prevalence Index = B/A = 2.8
6	_			Prevalence index – b/A – 2.0
7				Hydrophytic Vegetation Indicators:
	60	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
1. Lysimachia nummularia / Moneywort, Creeping-jenny	35	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Euthamia graminifolia / Flat-top goldentop	30	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Impatiens capensis / Spotted jewelweed	20	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4		-		
5.		-		¹Indicators of hydric soil and wetland hydrology must
6.		-		be present, unless disturbed or problematic.
7				
8.				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		-	- 	breast height (DBH), regardless of height.
12	85	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	00	_ = 10tal C0V	ei	greater than or equal to 3.28 ft (1 m) tall.
1. Toxicodendron radicans / Eastern poison ivy	20	Yes	FAC	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.		163	170	
3.	_			Woody vines - All woody vines greater than 3.28 ft in height.
4.	-	_		neight.
·	20	= Total Cov		Hydrophytic
		10(a) 000	Ci	Vegetation
				Present? Yes X No
				100 <u>X</u> 100
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: ____084-1W

Depth	ription: (Describe to th Matrix	<u> </u>		x Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	2.5y 3/1	92	7.5yr 4/6	8	С	М	Clay loam			
						,				
						,				
						,				
	-									
	-									
	-									
Type: C=Coi	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=F	Pore Lining, M=Ma	atrix.
Hydric Soil I								s for Probl	lematic Hydric S	oils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S8	3) (LRR R,	MLRA 1491	3) 2 cm	Muck (A10	(LRR K, L, ML)	RA 149B)
Histic Ep	oipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	edox (A16) (LRR	K, L, R)
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1) (LRR K, L)		5 cm	Mucky Pe	at or Peat (S3) (L	.RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	67) (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Poly	alue Belov	v Surface (S8) (L	RR K, L)
Depleted	d Below Dark Surface (A	\11)	X Redox Dark Sur	face (F6)			— Thin	Dark Surfa	ice (S9) (LRR K,	L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy M	Mucky Mineral (S1)		Redox Depressi	ions (F8)			— Piedi	mont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)								TA6) (MLRA 144	
	Redox (S5)								terial (F21)	
	Matrix (S6)								ark Surface (TF12	2)
	rface (S7) (LRR R, ML	RA 149B)							n Remarks)	•
	, , ,	,						` '	,	
3Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Postrictivo I	ayer (if observed):									
	ayer (ii observeu).									
Type:	ohoo):						Hydric Soil P	lrocont?	Voc. V	No
Depth (in	cnes):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020	- South Ripley	C	City/County:	Chautaugua	County	Sampling Date:	08/05/2020
Applicant/Owner:			nnectGen LLC			State: New York		084-2U
Investigator(s):		RM JK		Section, Township			wn of Ripley	
Landform (hillslope, teri	race. etc):	Hill slope	-	ef (concave, con		Convex		(%): Gentle
Subregion (LRR or MLF	· · · · —		Lat:	42.2006508	· -	-79.709424		` '
Soil Map Unit Name:	, 		Ashville silt loam			NWI classification		
Are climatic / hydrologic	c conditions on th	ne site typical for this			No (If no	 o, explain in Remark	s.)	
Are Vegetation			•			ircumstances" prese		(No
		, or Hydrology		blematic?	(If needed, exp	lain any answers in		
SUMMARY OF FIN	_					•	•	
Hydrophytic Vegetati		Yes	No X		Sampled Area	<u> </u>		
Hydric Soil Present?		Yes			a Wetland?	Yes	No X	
Wetland Hydrology P		Yes	No X	_	optional Wetland Si			_
- Trouble Try drology T				, 555,				
Remarks: (Explain al	ternative procedu	ures here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (m		oquired: check all th	at apply)			Cocondany Indias	store (minimum of t	wo roquirod)
Surface Water (squired, check all til	Water-Stained I	eaves (R0)			ators (minimum of t l Cracks (B6)	wo required)
High Water Tabl	,		Aquatic Fauna	(,			atterns (B10)	
Saturation (A3)	` ,		Marl Deposits (I			Moss Trim L		
Water Marks (B			Hydrogen Sulfic	•			Water Table (C2)	
Sediment Depos	,		_	spheres on Living	Roots (C3)	Crayfish Bu		
Drift Deposits (E			_	duced Iron (C4)	110013 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•		_	duction in Tilled S	Soils (C6)		Stressed Plants (D1	
Iron Deposits (B			Thin Muck Surfa		JOIIO (00)		Position (D2)	• /
	ile on Aerial Imag	 uerv (B7)	Other (Explain i	` '		Shallow Aqu		
	ated Concave Su		(,			aphic Relief (D4)	
		,				FAC-Neutra		
Field Observations:								
Surface Water Prese		s No _X		•	_			
Water Table Present		s NoX	_ ' '	·	_		.,	
Saturation Present?	Yes	s NoX	Depth (inches):	Wetland Hy	drology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	Data (stream gau	ge. monitoring well.	aerial photos, pre	vious inspections	s), if available:			
		g-,g,	, p, p		,,			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: 084-2U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:1 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Acer saccharum / Sugar maple	10	Yes	FACU	Total Number of Dominant
2. Prunus serotina / Black cherry	5	Yes	FACU	Species Across All Strata:5 (B)
3.				
4				Percent of Dominant Species
56.				That Are OBL, FACW, or FAC: 20.0 (A/B)
7.		-	 	Prevalence Index worksheet:
·	15	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_	-	OBL species 0 x 1 = 0
1. Acer saccharum / Sugar maple	40	Yes	FACU	FACW species 10 x 2 = 20
2. Prunus serotina / Black cherry	15	Yes	FACU	FAC species 0 x 3 = 0
3.				FACU species 70 x 4 = 280
4				UPL species 0 x 5 = 0
5				Column Totals: 80 (A) 300 (B)
6.				Prevalence Index = B/A = 3.75
7				Hydrophytic Vegetation Indicators:
	55	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
Dryopteris carthusiana / Spinulose wood fern	10	Yes	FACW	3 - Prevalence Index ≤3.0¹
2.				4 - Morphological Adaptations (Provide supporting
3.				Problematic Hydrophytic Vegetation¹ (Explain)
4 5.				
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8.				Definitions of Vagatation Strata
9.				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	10	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3	-	-		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation Present? Yes No X
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			
(-1/			

SOIL Sampling Point: 084-2U

	Matrix		Redo:	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarl	ks	
0-3	5Ayr 2.5/2	100					Loam	Organic la	iyer		
3-18	10YR 4/3	92	5YR 4/6	8	С	М	Loam	Some cor	cretions sca	attered	
					. <u> </u>						
				_	. <u> </u>						
				_							
			·	_							
				_							
				_							
				_							
Type: C=Coi	ncentration, D=Depletion	ı, RM=Redı	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M	/I=Matrix.	
Hydric Soil I	ndicators:						Indicator	s for Proble	ematic Hydr	ric Soils³:	
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149E) (LRR K, L		(B)
	pipedon (A2)		Thin Dark Surfa						dox (A16) (-
	istic (A3)		Loamy Mucky N			1400)			t or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		(=:\:\ I L)		· · · · · · · · · · · · · · · · · · ·		7) (LRR K ,		-, 13)
	d Layers (A5)		Depleted Matrix					-	Surface (S8	-	
		11)							-		L)
	d Below Dark Surface (A	111)	Redox Dark Su						ce (S9) (LR		(
	ark Surface (A12)		Depleted Dark					J	Masses (F1	, .	
	Mucky Mineral (S1)		Redox Depress	ions (F8)			· · · · · · · · · · · · · · · · · · ·		olain Soils (F		
	Gleyed Matrix (S4)								46) (MLRA	144A, 145,	149B)
	Redox (S5)							Parent Mate			
	d Matrix (S6)								rk Surface (TF12)	
Dark Su	ırface (S7) (LRR R, MLI	RA 149B)					Othe	r (Explain ir	Remarks)		
Indicators of	f hydrophytic vegetation a	and wetland	d hydrology must be p	resent. unles	ss disturbed	or problem	atic.				
	_ayer (if observed):										
									.,		.,
Type:							Hydric Soil F	resent?	Yes	No _	Х
Type: Depth (in	nches):					•					
Depth (in	nches):										
Depth (in	nches):										
Depth (in	nches):										
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Depth (in	nches):										

Project/Site:	19020 - Sout	th Ripley	City/Cou	ınty:	Chautauqua C	County	Sampling Date:	08/05/2020
Applicant/Owner:		Connect	Gen LLC	· —	•	te: New York		084-2W
Investigator(s):	RM .		Section.	Township, Rar			vn of Ripley	
Landform (hillslope, terrac		Lowland	Local relief (conc			Concave	· ,	(%): Gentle
Subregion (LRR or MLRA)	· · —			20105966	Long:	-79.709351		· ·
Soil Map Unit Name:			ville silt loam			NWI classification		PEM
Are climatic / hydrologic co				X No	(If no	explain in Remark		
, ,	, Soil , or Hy	* *	significantly disturbe		` ′	umstances" prese	,	(No
			naturally problematic			in any answers in		<u> </u>
SUMMARY OF FIND					· ·	•	•	
		-				is, important	icatures, etc.	
Hydrophytic Vegetation	Present?		No	Is the Samp				
Hydric Soil Present?	_		No	within a We		Yes X		_
Wetland Hydrology Pres	sent?	Yes X N	No	If yes, option	nal Wetland Site	ID:	Wetland 84	
Remarks: (Explain alter	native procedures he	ere or in a separat	e report)	•				
Tromantor (=xpram artor)	procedures no	no or in a coparac	5 · 5p 5 ·)					
HYDROLOGY								
Wetland Hydrology Inc	dicators:							
Primary Indicators (mini	mum of one required	d; check all that ap	ply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1))		ater-Stained Leaves	(B9)		Surface Soi	Cracks (B6)	
X High Water Table (A2)	Ac	ıuatic Fauna (B13)			X Drainage Pa	atterns (B10)	
X Saturation (A3)		Ma	arl Deposits (B15)			Moss Trim L	ines (B16)	
Water Marks (B1)		Hy	drogen Sulfide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	; (B2)	Ox	kidized Rhizospheres	on Living Roo	ts (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Pr	esence of Reduced I	ron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Re	ecent Iron Reduction	in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Th	in Muck Surface (C7	')		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B	7) Ot	her (Explain in Rema	arks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	d Concave Surface (I	B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations								
Field Observations:		N- V F	No 41 (in1) .					
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes X		Depth (inches):	20			., .,	
Saturation Present?	Yes X	No	Depth (inches):	3	wetiand Hydr	ology Present?	Yes X	No
(includes capillary fringe	∌)							
(s.zzoo oapmary miligo	,							
	·	nitoring well, aeria	al photos, previous in	spections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous in	nspections), if a	vailable:			
	·	onitoring well, aeria	al photos, previous in	nspections), if a	vailable:			
	·	onitoring well, aerid	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aerid	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	espections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	espections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	nspections), if a	vailable:			
Describe Recorded Data	·	onitoring well, aeria	al photos, previous ir	espections), if a	vailable:			

				Sampling Point: 084-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
	%Cover	Species?	Status	That Ald OBE, Thorr, of the
1.	7000131	Ороског.	Otatao	Total Number of Dominant
				Species Across All Strata: 9 (B)
			- ——	Species Across All Strata.
				D at of Descinent Organia
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 44.4 (A/B)
6				Prevalence Index worksheet:
7				
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 43 x 1 = 43
Lonicera morrowii / Morrow's honeysuckle	15	Yes	FACU	FACW species 10 x 2 = 20
2. Viburnum dentatum var. dentatum / Southern arrowwood	5	Yes		FAC species 0 x 3 = 0
3.				FACU species 50 x 4 = 200
4.		-		UPL species 0 x 5 = 0
E			-	Column Totals: 103 (A) 263 (B)
				Prevalence Index = B/A = 2.55
-			_	
7		T-tal Car	- -	Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	30	Yes	FACU	X 3 - Prevalence Index ≤3.0¹
2. $\underline{\textit{Eutrochium maculatum var. maculatum / Spotted joe pye we}}$	15	Yes		4 - Morphological Adaptations (Provide supporting
3. Scirpus cyperinus / Woolgrass	15	Yes	OBL	
4. Carex vulpinoidea / Fox sedge, Brown fox sedge	10	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
5. Onoclea sensibilis / Sensitive fern	10	Yes	FACW	
6. Convolvulus arvensis / Field bindweed, Bindweed, Orchard r	10	Yes	-	¹ Indicators of hydric soil and wetland hydrology must
Typha latifolia / Broadleaf cattail, Broad-leaved cattail	10	Yes	OBL	be present, unless disturbed or problematic.
8. Lappula occidentalis / Flatspine stickseed	8	No		
• • • • • • • • • • • • • • • • • • • •			- ODI	Definitions of Vegetation Strata
9. Scirpus atrovirens / Green bulrush	8	No	OBL	
10. Rubus allegheniensis / Allegheny blackberry	5	No	FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	121	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.		-		Woody vines - All woody vines greater than 3.28 ft in
3		-	-	height.
4.				noight.
4	0	= Total Cov		Hydrophytic
		_ = 10tal 00v	ei	
				Vegetation
				Present? Yes X No

SOIL Sampling Point: 084-2W

Depth	ption: (Describe to the Matrix			k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	2.5Y 3/1	90	10YR 5/8	10	С	PL,M	Clay loam	Sandy fill	layer from 2-4 inc	hes
18-24	2.5Y 6/3	85	7.5YR 6/6	15	C	М	Silt loam			
								-		
										
								-		
ype: C=Cond	centration, D=Depletion,	RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loc	ation: PL=P	ore Lining, M=Ma	trix.
ydric Soil Inc	dicators:						Indicator	s for Probl	ematic Hydric So	oils³:
Histosol (/			Polyvalue Belov	v Surface (S8) (LRR R.	MLRA 1491) (LRR K, L, MLI	
	pedon (A2)		Thin Dark Surfa					-	edox (A16) (LRR	•
Black Hist			Loamy Mucky M			,			at or Peat (S3) (L	
	Sulfide (A4)		Loamy Gleyed N						7) (LRR K, L)	,
	Layers (A5)		Depleted Matrix	(F3)			Poly	value Below	Surface (S8) (L	RR K, L)
	Below Dark Surface (A1	1)	X Redox Dark Sur	face (F6)			Thin	Dark Surface	ce (S9) (LRR K,	L)
Thick Dar	k Surface (A12)		X Depleted Dark S	Surface (F7)			Iron-	Manganese	Masses (F12)	LRR K, L, R)
Sandy Mu	ıcky Mineral (S1)		Redox Depressi	ions (F8)			Pied	mont Flood	olain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA 144	A, 145, 149B)
Sandy Re	dox (S5)						Red	Parent Mate	erial (F21)	
Stripped N	Matrix (S6)						Very	Shallow Da	ırk Surface (TF12)
Dark Surfa	ace (S7) (LRR R, MLR	A 149B)					Othe	er (Explain ir	n Remarks)	
Indicators of h	ydrophytic vegetation a	nd wetlan	d hydrology must be p	resent. unles	s disturbed	or problem	atic.			
	yer (if observed):					· 				
SESTRICTIVE I A										
	, j c. (c.zccc.z.).						Hydric Soil F	Present?	Yes X	No
Type: Depth (incl							-			
Type: Depth (incl						•				
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl						·				
Type: Depth (incl						·				
Type: Depth (incl										
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Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										
Туре:										
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										
Type: Depth (incl										

Project/Site:	19020 - 9	South Ripley	City/0	County:	Chautauqua (County	Sampling Date:	08/05/2020
Applicant/Owner:			nnectGen LLC			ate: New York		085-1U
Investigator(s):		RM JK	Secti	on, Township, Ra			wn of Ripley	
Landform (hillslope, terr				oncave, convex, r		Convex	Slope	(%): Gentle
Subregion (LRR or MLR				42.19604026	Long:			· ·
Soil Map Unit Name:			e silt loam, 3-8% slopes			NWI classification		
Are climatic / hydrologic			· · · · · · · · · · · · · · · · · · ·		(If no.	_ , explain in Remark	s.)	
		• •	significantly distu			cumstances" prese		(No
			naturally problem			ain any answers in		<u> </u>
SUMMARY OF FIN	_	·				•	•	
		-			·	7.5, Important	icatares, etc.	
Hydrophytic Vegetation	on Present?	Yes		Is the Sam	-		N. V	
Hydric Soil Present?		Yes		within a We			NoX	_
Wetland Hydrology P	resent?	Yes	NoX	if yes, optio	nal Wetland Site	e ID:		
Remarks: (Explain alt	ternative procedure	es here or in a se	parate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	inimum of one requ	uired; check all th	nat apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	A1)	_	Water-Stained Leav	res (B9)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)	_	Aquatic Fauna (B13	3)		Drainage Pa	atterns (B10)	
Saturation (A3)		_	Marl Deposits (B15))		Moss Trim L	ines (B16)	
Water Marks (B1	1)	_	_ Hydrogen Sulfide O	dor (C1)		Dry-Season	Water Table (C2)	
Sediment Depos	sits (B2)	_	Oxidized Rhizosphe	eres on Living Roo	ots (C3)	Crayfish Bu		
Drift Deposits (B	3)	_	_ Presence of Reduce	ed Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Cru	st (B4)	_	Recent Iron Reduct	ion in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B	5)	_	Thin Muck Surface			Geomorphic	Position (D2)	
Inundation Visibl	le on Aerial Imager	y (B7)	Other (Explain in Re	emarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ited Concave Surfa	ice (B8)					aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Preser		No X	Depth (inches):					
Water Table Present?	_	NoX						
Saturation Present?	Yes	NoX			Wetland Hvd	Irology Present?	Yes	No X
(includes capillary frin	-	110X	Depti (mones)	_	wedana riya	rology i resent.	100	140 <u>X</u>
(molades capillary illi	<u> </u>							
Describe Recorded D	ata (stream gauge	e, monitoring well.	, aerial photos, previou	s inspections), if a	available:			
Remarks:								

				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
	%Cover	Species?	Status	(',
1.	700010.	_ <u> </u>	<u> </u>	Total Number of Dominant
<u> </u>		-	 	Species Across All Strata: 5 (B)
				Species Acioss Ali Stiata.
·		-		Devent of Deminent Charles
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40.0 (A/B)
6		<u> </u>		Prevalence Index worksheet:
7			- · · · · · · · · · · · · · · · · · · ·	
	0	_ = Total Cove	er	
Sapling/Shrub Stratum (Plot size:15)				
1. Viburnum dentatum var. dentatum / Southern arrowwood	15	Yes		FACW species 0 x 2 = 0
2. Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	FAC species 40 x 3 = 120
3		_,		FACU species 45 x 4 = 180
4				UPL species18 x 5 =90
5.				Column Totals: (A) (B)
6.			- <u> </u>	Prevalence Index = B/A = 3.79
7.		_		
	20	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
1. Solidago canadensis / Canada goldenrod	40	Yes	FACU	2 - Dominance Test is >50%
2. Euthamia graminifolia / Flat-top goldentop	20	Yes	FAC	3 - Prevalence Index ≤3.0¹
	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Solidago rugosa / Wrinkle-leaf goldenrod			. — — — — — — — — — — — — — — — — — — —	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Fragaria vesca / Wild strawberry, Wood strawberry	18	No No	UPL	
5. Symphyotrichum novi-belgii var. elodes / New york aster	10	<u>No</u>		¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7		_	<u> </u>	bo process, amood dictarbod or problematic.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.			- <u> </u>	Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		-		. , ,
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				
2.		_		Woody vines - All woody vines greater than 3.28 ft in
o				height.
4		- 		The decade of a
	0	_ = Total Cove	er	Hydrophytic
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate r				Vegetation Present? Yes NoX

SOIL Sampling Point: 085-1U

Color (moist) % Color (moist) % Color (moist) % Type' Loc' Texture Remarks	Depth	iption: (Describe to the Matrix			Features				•
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Icocation: PL=Pore Lining, M=Matrix. **Idicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soil Present?	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
Indicators for Problematic Hydric Soils*: Histosol (A1)	0-18	10YR 4/3	92	7.5YR 5/6	8	C	M	Loam clay	
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)					· ——				
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)					· ———				
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)	_								
Indicators for Problematic Hydric Soils*: Histosol (A1)									
Indicators for Problematic Hydric Soils*: Histosol (A1)	_								
Histosol (A1)	ype: C=Con	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mask	ed Sand Gra	ains.		²Locat	ion: PL=Pore Lining, M=Matrix.
Histosol (A1)	/dric Soil Ir	idicators:						Indicators	for Problematic Hydric Soils ³ :
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X				Polyvalue Below	Surface (S8	3) (LRR R,I	MLRA 1491		-
Black Histic (A3)		•	•	 -	•			· —	Prairie Redox (A16) (LRR K, L, R)
Stratified Layers (A5)	Black His	etic (A3)	•	Loamy Mucky M	lineral (F1) (LRR K, L)			
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X	Hydrogei	n Sulfide (A4)		Loamy Gleyed N	/latrix (F2)			Dark S	Surface (S7) (LRR K, L)
Thick Dark Surface (A12)	_		-						
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Destrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Hydric Soil Present? Yes No X		Indicators for Problematic Hydric Stor (A1)							
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X	_								. ,
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX	_	• • •	•	Redox Depressi	ons (F8)				
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X									
Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X									
estrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Type: Depth (inches): Type: Type		· · ·	RA 149B)						
Sestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX		(=: , (=: , ,	,					_	(
Type:	Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent, unles	s disturbed	or problem	atic.	
Type:	Restrictive L	aver (if observed):							
Depth (inches): Hydric Soil Present? Yes No X									
emarks:								Hydric Soil Pr	esent? Yes No X
emarks:				<u> </u>					
	emarks:								

Project/Site:	19020	- South Ripley		City/Coun	ıtv:	Chautauqua (County	Sampling Date:	08/05/2020
Applicant/Owner:			nnectGen LLC	,·		•	ate: New York		085-1W
Investigator(s):		RM JK		Section, T	Township, Ran			wn of Ripley	
Landform (hillslope, ter	race. etc):	Swale	Local re		ive, convex, no		Concave	· · ·	e (%): Gentle
Subregion (LRR or ML	· · ·		Lat:	•	9577259	Long:	-79.710470		` '
Soil Map Unit Name:	′ 		e silt loam, 3-8%				NWI classification		PEM
Are climatic / hydrologi	c conditions on th	ne site typical for th	is time of year?	Yes X	(No	(If no,	– explain in Remark	s.)	
Are Vegetation			•	ly disturbed			cumstances" prese	•	X No
		, or Hydrology				f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	_					•	-	•	
Hydrophytic Vegetati		Yes X			Is the Samp		,		
Hydric Soil Present?		Yes X	No No	_	within a Wet		Yes X	No	
Wetland Hydrology F		Yes X	No	_		al Wetland Site		PEM	_
Trouding Try droidgy T				_		ai Wolland Oll			
Remarks: (Explain a	Iternative procedu	ures here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
Primary Indicators (n		oguirod: obook all ti	hat apply)				Cocondary India	ators (minimum of	two required)
Surface Water (squireu, crieck air ti	Water-Staine	d Leaves (F	30)			ators (minimum of I Cracks (B6)	(wo required)
High Water Tab	` '	_	Aquatic Faun	•	39)			atterns (B10)	
Saturation (A3)	` ,	_	Marl Deposits	, ,			Moss Trim L		
Water Marks (B		_	Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depo	,	<u> </u>	Oxidized Rhiz			s (C3)	Crayfish Bu	` ,	
Drift Deposits (E	` ,		Presence of I		-	3 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•	_	_		n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (E		_	Thin Muck Su		•	30)	X Geomorphic		• ,
	ble on Aerial Imag	uerv (B7)	Other (Explai	, ,			Shallow Aqu		
	ated Concave Sui				-,			aphic Relief (D4)	
, ,		,					X FAC-Neutra		
Field Observations									
Surface Water Prese		s No _X	_ ' `						
Water Table Present		s No _X	_ ' '					., .,	
Saturation Present?		s No _X	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fri	nge)								
Describe Recorded I	Data (stream gau	ge. monitoring well	. aerial photos. p	orevious ins	pections), if a	vailable:			
	(o o g,	g-,	,, р		,,				
Remarks:									

	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B)
%Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:3(A) Total Number of Dominant Species Across All Strata:4(B)
%Cover	Species?	Status	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B)
%Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 4 (B)
			Species Across All Strata:4 (B)
			Species Across All Strata:4 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 75.0 (A/B)
			Tilat Ale Obe, I Aort, of I Ao.
			Prevalence Index worksheet:
	= Total Cove	or	Total % Cover of: Multiply by:
	_ = 10101 00	;1	OBL species 40 x 1 = 40
Q	Vaq		FACW species 48 x 2 = 96
		- FAUV	FAC species 0 x 3 = 0
		- ——	FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 88 (A) 136 (B)
		- ——	Prevalence Index = B/A = 1.55
		- ——	Flevalence index = D/A = 1.55
		- ———	Hydrophytic Vegetation Indicators:
8	_ = Total Cove	ər	X 1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
80	Yes		X 3 - Prevalence Index ≤3.0¹
40	Yes	FACW	4 - Morphological Adaptations (Provide supporting
40	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
	<u></u>		Problematic nyurophytic vegetation (Explain)
			" " Charles and well and hydrology must
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Definitions of vegetation Strata
			T 144 the standards 2 in (7.6 cm) or more in diameter at
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		- —	
	- Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
100	_ = 10tai 00v0	31	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
		-	Woody vines - All woody vines greater than 3.28 ft in
		- ——	height.
0	_ = Total Cove	er	Hydrophytic
			Vegetation
			Present? Yes No
	8 80 40 40 40	8 = Total Cove 80	8 = Total Cover 80

SOIL Sampling Point: 085-1W

Depth	Matrix		eeded to document th Redox	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 3/2	92	7.5YR 5/8	8	С	PL,M	Loam clay			
18-22	2.5Y 6/3	85	2.5Y 6/8	15	C	M	Loam silt			
T. (20.1 C-Co.2		- DM-Dad	used Matrix MC-Mad	Lod Cond Cr			21	tion: DI -Di	ara Lining M-Mat	al.,
Type: C=Con	centration, D=Depletion	i, RIVI=Rea	uced Matrix, MS=Masi	ked Sand Gr	ains.		Loca	tion: PL=PC	ore Lining, M=Mat	rix.
Hydric Soil In	dicators:						Indicators	for Proble	ematic Hydric So	ils³:
Histosol ((A1)		Polyvalue Belov	v Surface (S	3) (LRR R ,	MLRA 1491	3) 2 cm	Muck (A10)	(LRR K, L, MLR	A 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coas	t Prairie Re	dox (A16) (LRR	K, L, R)
Black His	stic (A3)		Loamy Mucky M	/lineral (F1)	LRR K, L)		5 cm	Mucky Pea	t or Peat (S3) (LF	RR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S7	7) (LRR K, L)	
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LF	RR K, L)
X Depleted	Below Dark Surface (A	.11)	X Redox Dark Sur				Thin I	Dark Surfac	e (S9) (LRR K, I	-)
	rk Surface (A12)		Depleted Dark S					ū	Masses (F12) (I	
	ucky Mineral (S1)		Redox Depressi	ions (F8)					olain Soils (F19) (I	
	eyed Matrix (S4)								A6) (MLRA 144 A	, 145, 149B)
	edox (S5)						_	Parent Mate		
	Matrix (S6)								rk Surface (TF12)	
Dark Surf	face (S7) (LRR R, MLI	RA 149B)					Other	(Explain in	Remarks)	
		and wetlan	d hydrology must be n	recent unles	e dieturhad	or problem	atic			
3Indicators of I			u nyunology must be p	resent, unice	3 distarbed	or problem	allo.			
Indicators of I	hydrophytic vegetation a									
	nydropnytic vegetation a ayer (if observed):									
Restrictive La	ayer (if observed):									
Restrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No

Project/Site:	19020	- South Ripley		City/County:	:	Chautauqua (County	Sampling Date:	08/10/2020
Applicant/Owner:			nectGen LLC	, ,			ate: New York		086-1U
Investigator(s):		RM JK		Section, Tow	vnship, Rang	e:	Tov	wn of Ripley	
Landform (hillslope, terra	ace, etc):	Hillslope	Local re	lief (concave	, convex, nor	ne):	Convex	Slope	e (%): Gentle
Subregion (LRR or MLRA	A): LF	RR R MLRA 139	Lat:	42.190	59669	Long:	-79.7068170	Datur	m: NAD 83
Soil Map Unit Name:			Erie silt loam				NWI classification	on:	
Are climatic / hydrologic o	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	significantly	disturbed?	Are	e "Normal Circ	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally pro	oblematic?	(If ı	needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ach site map sl	nowing sam	pling poin	nt location	s, transec	ts, important	features, etc.	
Hydrophytic Vegetation	n Present?	Yes	No X	Is	the Sample	ed Area	<u>-</u>		
Hydric Soil Present?		Yes	No X	_	ithin a Wetla		Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	_		I Wetland Site			_
				-	, , , , , , , , , , , , , , , , , , , ,				
Remarks: (Explain alte	rnative procedu	res here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology Ir	ndicators:								
Primary Indicators (mir		equired: check all tha	at apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A:		rquirou, orroon un uro	Water-Stained	Leaves (B9))			I Cracks (B6)	
High Water Table	•		Aquatic Fauna	, ,	,			atterns (B10)	
Saturation (A3)	()		Marl Deposits				Moss Trim L		
Water Marks (B1))		Hydrogen Sulf		1)			Water Table (C2)	
Sediment Deposit	,		Oxidized Rhize			(C3)	Crayfish Bu		
Drift Deposits (B3			Presence of R	-	-	(55)		/isible on Aerial Im	lagery (C9)
Algal Mat or Crus	•		Recent Iron Re			6)		Stressed Plants (D	
Iron Deposits (B5			Thin Muck Sur		ilica dolla (o	0)		Position (D2)	1)
Inundation Visible	•		Other (Explain	` ,	١		Shallow Aqu		
Sparsely Vegetate	-		Other (Explain	i iii ixeiiiaiks)			aphic Relief (D4)	
Sparsely vegetate	ed Concave Sui	lace (DO)					FAC-Neutra		
Field Observations:									
Surface Water Present	t? Yes	s NoX_		s):					
Water Table Present?	Yes	s NoX_	_ ' '	· —					
Saturation Present?	Yes	s NoX	Depth (inche	s):	\	Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	ge)								
Dosariba Basardad Da	ata (etroam gaur	go, monitoring well	acrial photos pr	ovious inspo	otions) if ave	nilablo:			
Describe Recorded Da	ata (stream gaug	je, monitoring weil, a	aeriai priotos, pr	evious irispe	ections), ii ava	allable:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 086-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Fagus grandifolia / American beech	40	Yes	FACU	Total Number of Dominant
2. Acer rubrum / Red maple	25	Yes	FAC	Species Across All Strata: 8 (B)
3. Prunus serotina / Black cherry	10	No	FACU	(=)
4. Ostrya / Hophornbeam	5	No		Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)
-				11100 0000 (11100)
7.				Prevalence Index worksheet:
··-	80	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10(a) 000	Ci	OBL species 0 $x = 0$
1. Lindera benzoin / Northern spicebush	20	Yes	FACW	FACW species 30 x 2 = 60
Elitatia benzolin'i Northern spicebush Fagus grandifolia / American beech	20	Yes	FACU	FAC species 25 x 3 = 75
			FACU	FACU species 70 x 4 = 280
3				UPL species $0 \times 5 = 0$
4.				Column Totals: 125 (A) 415 (B)
5				Prevalence Index = B/A = 3.32
6				Prevalence index = b/A = 5.32
7			_	Hydrophytic Vegetation Indicators:
	40	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Ostrya / Hophornbeam	10	Yes		3 - Prevalence Index ≤3.0¹
2. Fraxinus pennsylvanica / Green ash	5	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Rubus / Blackberry	5	Yes		1 -
4. Lindera benzoin / Northern spicebush	5	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5.	_	_		
6.		_		¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Variation Ctuate
				Definitions of Vegetation Strata
				7 W 1 1 1 0 7 7 2 3 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
10	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				
12	25	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		_ = 10(a) C0v	ы	greater than or equal to 3.28 ft (1 m) tall.
· — — · — — ·				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
				.1
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 086-1U

Depth	Matrix		Redox	k Features			e of indicators				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	-	Remar	ks	
0-2	10YR 2/2	100					Loam				
2-18	10YR 4/4	100					Loam				
				- '							
				- '							
ype: C=Con	centration, D=Depletion	on, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, N	/I=Matrix.	
dric Soil In	ndicators:						Indicators	for Proble	ematic Hyd	ric Soils³:	
Histosol (Polyvalue Belov	v Surface (S8) (LRR R.M	LRA 149B) (LRR K, L		9B)
	ipedon (A2)		Thin Dark Surfa	•			· —	•	dox (A16)	•	•
Black His			Loamy Mucky M			400)			it or Peat (S		
_	n Sulfide (A4)		Loamy Gleyed N		,,				7) (LRR K ,		, =, 1\)
	Layers (A5)		Depleted Matrix						Surface (S		D
	Below Dark Surface (Δ11)	Redox Dark Sur						ce (S9) (LR		, _,
	rk Surface (A12)	,,,,,	Depleted Dark S						Masses (F		K I R)
_	ucky Mineral (S1)		Redox Depressi					•	olain Soils (F	, .	
	leyed Matrix (S4)		Rodox Boproson	0110 (1 0)				-	A6) (MLRA		
_	edox (S5)							Parent Mate			, ,
	Matrix (S6)								rk Surface (TF12)	
_	face (S7) (LRR R, MI	I RA 149R)							Remarks)	11 12)	
	lace (or) (Elarett, IIII	LIVA 140D)						(Explain ii	r (Ciriano)		
		and wotland	l hydrology must be n	resent, unles	s disturbed o	r problema	atic.				
ndicators of I	hydrophytic vegetation	i and welland	i nyarology mast be p								
		and welland	Triyarology mast be p								
Restrictive La	ayer (if observed):										
estrictive La	ayer (if observed):						Hvdric Soil P	resent?	Yes	No	X
estrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No No	<u> </u>
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil Pi	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	<u> </u>
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
Type:	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X
estrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes	No	X

Project/Site:	19020 -	- South Ripley		City/Cour	ntv:	Chautaugua	County	Sampling Date:	08/10/2020
Applicant/Owner:			nectGen LLC	,	,.		ate: New York		086-1W
Investigator(s):		RM JK		Section.	Township, Rar	-		wn of Ripley	
Landform (hillslope, ter	race. etc):	Lowland	Local re		ave, convex, n		Concave		e (%): Gentle
Subregion (LRR or MLF	· · · · —		Lat:	•	1907751		-79.707028		` ′
Soil Map Unit Name:	,		Erie silt loam			5	NWI classification		PFO
Are climatic / hydrologic	c conditions on the	e site typical for this			X No	(If no,	explain in Remark	-	-
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		roblematic'	? (1	If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FII		-					•	·	
Hydrophytic Vegetati		Yes X	No		Is the Samp				
Hydric Soil Present?		Yes X	No No	_	within a We		Yes X	No	
Wetland Hydrology F		Yes X	No No	-		nal Wetland Site		PFO	_
Trouding Try drology T				_		Tar VVollaria Oil		110	
Remarks: (Explain al	Iternative procedur	res here or in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
Primary Indicators (n		auirod: abook all the	at apply)				Socondary Indias	ators (minimum of	two required)
Surface Water (quireu, crieck air th	Water-Staine	d Leaves (R0)			ators (minimum of I Cracks (B6)	two required)
High Water Table	` '		Aquatic Faun	,	D9)		X Drainage Pa		
Saturation (A3)			Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depor	,				on Living Roo	ts (C3)	Crayfish Bu		
Drift Deposits (E	` '		Presence of F	-	-	13 (00)		/isible on Aerial Im	nagery (C9)
Algal Mat or Cru	•				n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (E			Thin Muck Su			.00)	X Geomorphic	· ·	.,
	ole on Aerial Image	erv (B7)	Other (Explai				Shallow Aqu		
	ated Concave Surf				-,			aphic Relief (D4)	
_ , , ,		,					X FAC-Neutra		
Field Observations:									
Surface Water Prese		NoX	_ · ·						
Water Table Present		NoX	_ ' '	· —				., .,	
Saturation Present?	Yes	NoX	_ Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fri	nge)								
Describe Recorded [Data (stream gaug	ue. monitoring well.	aerial photos, p	revious ins	spections), if a	vailable:			
	(,,							
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 086-1W
-				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',')
1. Acer rubrum / Red maple	70	Yes	FAC	Total Number of Dominant
2. Ulmus americana / American elm	10	No	FACW	Species Across All Strata: 4 (B)
3.				(B)
4.		_		Percent of Dominant Species
···				That Are OBL, FACW, or FAC: 100.0 (A/B)
6.				11at746 6B2, 17teVI, 6117te(77B)
7.		-		Prevalence Index worksheet:
···	80	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ ''ota' ''	0.	OBL species 0 $x = 0$
1. Lindera benzoin / Northern spicebush	20	Yes	FACW	FACW species 70 x 2 = 140
Fraxinus pennsylvanica / Green ash		Yes	FACW	FAC species 70 x 3 = 210
			TAOW	FACU species 5 x 4 = 20
3. 4.	_			UPL species 0 x 5 = 0
				Column Totals: 145 (A) 370 (B)
5.				Prevalence Index = B/A = 2.55
6.				
7	25	- Total Occ	or.	Hydrophytic Vegetation Indicators:
Horb Chrotism (District 5		_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	00	\/	E4 0)4/	X 2 - Dominance Test is >50%
Dryopteris carthusiana / Spinulose wood fern		_ Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Rosa multiflora / Multiflora rose, Multiflora rosa		No No	FACU	4 - Morphological Adaptations (Provide supporting
3. Fraxinus pennsylvanica / Green ash		No No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Impatiens capensis / Spotted jewelweed	_ 5	No No	FACW	
5. Onoclea sensibilis / Sensitive fern	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
6	_	_		be present, unless disturbed or problematic.
7		_		
8				Definitions of Vegetation Strata
9	_	_		
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	40	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2	_			Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 086-1W

Depth	ription: (Describe to the Matrix			c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-16	5Y 4/1	85	7.5YR 4/6	15	С	М	Clay loam			
16-20	5Y 5/1	50	10YR 5/6	50	С	М	Clay loam			
				_				-		
	· ·			_						
	· -									
	·									
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masi	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=M	latrix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric S	Soils³:
Histosol			Polyvalue Belov	v Surface (St	3) (LRR R,	MLRA 149) (LRR K, L, M	
	oipedon (A2)		Thin Dark Surfa						edox (A16) (LR	•
	stic (A3)		Loamy Mucky M			, , , , ,			at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N		(, -,				7) (LRR K, L)	,, _, ,
	d Layers (A5)		X Depleted Matrix					•	/ Surface (S8) ((LRR K. L)
	d Below Dark Surface (Δ11)	Redox Dark Sur						ce (S9) (LRR K	
	ark Surface (A12)	,	Depleted Dark S						Masses (F12)	
	Mucky Mineral (S1)		Redox Depressi					-	plain Soils (F19)	
	Gleyed Matrix (S4)		Redox Depressi	0113 (1 0)						4A, 145, 149B)
	Redox (S5)							Parent Mate		-A, 140, 140D)
	Matrix (S6)								ark Surface (TF1	12)
	rface (S7) (LRR R, ML	RA 149R)							n Remarks)	12)
	(Litter)							(Explain ii	r (Gridino)	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Doctrictive I	aver (if absorved).									
Type:	.ayer (if observed):									
Depth (in	ches).						Hydric Soil Pi	resent?	Yes X	No
Deptii (iii							Tiyunc Gon Ti	CSCIII:	103 <u>X</u>	
Remarks:										

Project/Site:	19020	- South Ripley		City/Count	tv:	Chautauqua (County	Sampling Date:	08/10/2020
Applicant/Owner:		· , , , , , , , , , , , , , , , , , , ,	nectGen LLC	,			ate: New York		086-2U
Investigator(s):		JK, RM		Section, To	ownship, Ran			wn of Ripley	
Landform (hillslope, ter	race, etc):	Flat	Local re		ve, convex, no		None	Slope	e (%): 0
Subregion (LRR or MLF			Lat:	-	9074169	Long:	-79.708574		` '
Soil Map Unit Name:	· —		silt loam, 3-8 %	slopes		_	NWI classification	on:	
Are climatic / hydrologic	conditions on the	e site typical for this	s time of year?	Yes X	No	(If no,	_ explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	significantly	y disturbed?	? Ar	re "Normal Cire	cumstances" prese	ent? Yes	X No
		, or Hydrology				needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ach site map s	howing sam	pling po	int location	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetati		Yes	No X		Is the Sampl			·	
Hydric Soil Present?		Yes	No X	_	within a Wet		Yes	NoX	
Wetland Hydrology F		Yes	No X	-		al Wetland Site		<u> </u>	_
				_	,,				
Remarks: (Explain al	ternative procedu	res here or in a ser	parate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m		equired: check all th	at apply)				Secondary Indica	ators (minimum of t	two required)
Surface Water (Water-Stained	d Leaves (B	39)			l Cracks (B6)	<u></u>
High Water Tabl	•		Aquatic Faun	•	,			atterns (B10)	
Saturation (A3)	` '		Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Sul		C1)			Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhiz			s (C3)	Crayfish Bu		
Drift Deposits (E			 Presence of F 		-	` ,		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•		Recent Iron R			C6)		Stressed Plants (D	
Iron Deposits (B	35)		Thin Muck Su	ırface (C7)	•		Geomorphic	Position (D2)	
Inundation Visib	le on Aerial Image	ery (B7)	Other (Explain	n in Remark	ks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Sur	face (B8)	_				Microtopogr	aphic Relief (D4)	
							FAC-Neutra	l Test (D5)	
Field Observations									
Field Observations:		s No X	Donth (inch	201:					
Surface Water Prese Water Table Present				-					
Saturation Present?			_ ' '	·		Watland Hyd	rology Procent?	Voc	No X
(includes capillary fri	Yes	NO	Deptil (inche	es)		welland nyu	rology Present?	Yes	No <u>X</u>
(includes capillary in	ige)								
Describe Recorded D	ົ່ງata (stream gauç	ge, monitoring well,	aerial photos, p	revious insp	pections), if av	/ailable:			
-									
Remarks:									

EGETATION - Use scientific names of plants.				Sampling Point:086-2U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	mat Alo OBE, 171011, of 1710.
1.	/00010.	_ ороскот.	Otatao	Total Number of Dominant
<u> </u>				Species Across All Strata: 1 (B)
				Species Across Air Strata.
				Descent of Deminent Chasins
ł				Percent of Dominant Species That Are ORL EACW or EAC: 0.0 (A/R)
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
). 				Prevalence Index worksheet:
·				
	0	_ = Total Cov	er	
apling/Shrub Stratum (Plot size:15)				OBL species 0 x 1 = 0
	- <u></u>			FACW species 15 x 2 = 30
				FAC species 0 x 3 = 0
				FACU species 90 x 4 = 360
				UPL species 0 x 5 = 0
				Column Totals: 105 (A) 390 (B)
				Prevalence Index = B/A = 3.71
	-, ,			
·	0	= Total Cov		Hydrophytic Vegetation Indicators:
St. Other (Distriction)		_ = 10tai 00+	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)	20	Von	54011	2 - Dominance Test is >50%
Solidago canadensis / Canada goldenrod	80	Yes	FACU	3 - Prevalence Index ≤3.0¹
Phalaris arundinacea / Reed canarygrass, Reed canary gras		No	FACW	4 - Morphological Adaptations (Provide supporting
Potentilla simplex / Oldfield cinquefoil	10	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
				Troblemane rigarophysic vogetation (_n_,
				41-41-4-72 of hydric soil and watland hydrology must
				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
			-	Definitions of Variation Strata
				Definitions of Vegetation Strata
				The second secon
0				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
1				breast height (DBH), regardless of height.
2		T-1-1 Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
	105	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
/oody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
·	. ——			size, and woody plants less than 3.28 ft tall.
·				Woody vines - All woody vines greater than 3.28 ft in
·				height.
	0	= Total Cov	/er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 086-2U

Profile Desc Depth	cription: (Describe to to Matrix	the depth nee		ne indicator	or confirm	the absen	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	rks
0-7	10yr 3/3	100	Color (molot)		1,700		Loam	rtoma	110
7-16	10yr 6/3	50	10yr 5/8	30			Loam		
7-16	10yr 4/2	20	10y1 3/0			M	Loam		
7-10	10y1 4/2					101	Loam		
		 .							
	_								
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Location:	PL=Pore Lining,	M=Matrix.
Hydric Soil I	Indicators:						Indicators for	Problematic Hyd	Iric Soils³:
Histosol	I (A1)		Polyvalue Belov	v Surface (S	8) (LRR R ,	MLRA 149	B) 2 cm Mucl	(A10) (LRR K, I	L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	A 149B)	Coast Pra	rie Redox (A16)	(LRR K, L, R)
Black H	listic (A3)	•	Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm Mucl	y Peat or Peat (S	63) (LRR K, L, R)
	en Sulfide (A4)	•	Loamy Gleyed I		. ,			ce (S7) (LRR K	
	d Layers (A5)	•	Depleted Matrix					Below Surface (S	
	d Below Dark Surface ((A11)	Redox Dark Sur	, ,				Surface (S9) (LF	, , , ,
	ark Surface (A12)	,	Depleted Dark S	` ,					12) (LRR K, L, R)
	Mucky Mineral (S1)	•	Redox Depress					· · · · · · · · · · · · · · · · · · ·	F19) (MLRA 149B)
	Gleyed Matrix (S4)	•		.0 (. 0)					A 144A, 145, 149B)
	Redox (S5)							t Material (F21)	
	d Matrix (S6)							ow Dark Surface	/TF12)
	urface (S7) (LRR R, M	I DA 140D)						lain in Remarks)	
Dark ou	mace (or) (ERRICH, III	LIVA 143D)					Offici (EX	nam m remarks)	
³ Indicators of	f hydrophytic vegetation	n and wetland	hydrology must be p	resent, unle	ss disturbed	l or problem	atic.		
Restrictive I	Layer (if observed):								
Type:	Rock								
Depth (ir	nches):	16					Hydric Soil Prese	nt? Yes	NoX
Remarks:	Dook refused multiple l	anationa 16in							
	Rock refusal multiple lo	ocations roin							

Project/Site:	19020 -	- South Ripley		City/Cour	ntv:	Chautauqua	County	Sampling Date:	08/10/2020
Applicant/Owner:			onnectGen LLC	,		•	ate: New York		086-2W
Investigator(s):		RM JK		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra	ace. etc):	Swale	Local re		ave, convex, n	`	Concave		e (%): Gentle
Subregion (LRR or MLR	· · ·		Lat:	•	19064475	Long:	-79.708787		` '
Soil Map Unit Name:	, 		Erie silt loam				NWI classification		PEM
Are climatic / hydrologic	conditions on the	site typical for th	nis time of year?	Yes >	X No	(If no.	– explain in Remark	(s.)	
Are Vegetation			•				cumstances" prese	•	X No
		, or Hydrology		roblematic	? (I	If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ich site map				-	•	•	
Hydrophytic Vegetation		Yes X			Is the Samp				
Hydric Soil Present?	TT TCSCITE:	Yes X		_	within a We		Yes X	No	
Wetland Hydrology Pro	esent?	Yes X		_		nal Wetland Site		PEM	_
vvctiana riyarology i ri		103 /		_	ii yes, optioi	iai vvetiana oiti	C ID.	I LIVI	
Remarks: (Explain alte	rnative procedur	res here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators								
Primary Indicators (mi		guirod: abook all (that apply)				Socondary India	ators (minimum of	two required)
Surface Water (A		quireu, crieck air t	Water-Staine	d Leaves (RO)			ators (minimum of I Cracks (B6)	two required)
High Water Table	•	_	Aquatic Faun	•	Б9)			atterns (B10)	
Saturation (A3)	(AZ)	_	Marl Deposits	` '			Moss Trim L		
Water Marks (B1)	١	_	Hydrogen Su		(C1)			Water Table (C2)	
Sediment Deposi		7	X Oxidized Rhiz			ts (C3)	Crayfish Bu		
Drift Deposits (B3			Presence of F		_	13 (00)		/isible on Aerial Im	nagery (C9)
Algal Mat or Crus	-	_			n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (B5		_	Thin Muck Su		•	00)		Position (D2)	• ,
Inundation Visible	•	erv (B7)	Other (Explai	, ,			Shallow Aqu		
Sparsely Vegetat	-				-,			aphic Relief (D4)	
_ , , ,		,					X FAC-Neutra		
Field Observations:									
Surface Water Presen		No X	· ·	· —					
Water Table Present?		NoX	' `	·				., .,	
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	je)								
Describe Recorded Da	ata (stream gaug	e. monitorina wel	I. aerial photos. p	revious ins	spections), if a	vailable:			
	(99	-,g	., ототтом разголог, р						
Remarks:									

Absolute Dominant Indicator Number of Dominant Species Status Number of Dominant Species Status Total Number of Dominant Species Species Status Species Status Species Status Species Status Total Number of Dominant Species	Absolute	Number of Dominant Species That Are OBL, FACW, or FAC:	VEGETATION - Use scientific names of plants.				Sampling Point: 086-2W
Absolute	Absolute	Absolute Dominant Indicator That Are OBL FACW, or FAC: 4 (A)					Dominance Test worksheet:
Absolute	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 4 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 4 (A)					
Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 6 (B) Across All Strata: 7 (B) Across All Strata: 7 (B) Across All Across Al	Total Number of Dominant Species Across All Strata: 6	Tree Stratum		Absolute	Dominant	Indicator	·
Total Number of Dominant Species Species Across All Strata: G B S Species Across All Strata: G G B S Species Across All Strata: G G C C C Species Across All Strata: G G C C C C C C C C	Total Number of Dominant Species Across All Strata: 6 (B)	Total Number of Dominant Species Across All Strats:	Tree Stratum (Plot size: 30)				That Aic Obe, I AOVI, of I Ao.
2.	Species Across All Stratus	Species Across All Strata:		/000101	ороскоо.	Otatao	Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)	3	3	•				
Percent of Dominant Species That Ave OBL, FACW, or FAC: 66.7 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)	## Percent of Dominant Species					Species Across All Strata.
That Are OBL, FACW, or FAC: 66.7 (A/B)	That Are OBL, FACW, or FAC: 66.7 (WB)	That Are OBL, FACW, or FAC: 66.7 (A/B)	· · · · · · · · · · · · · · · · · · ·				5 1 15 1 10
Prevalence Index worksheet: Total 'Cover of: Multiply by:	Prevalence Index worksheet: Total % Cover of:	Prevalence Index workshee: Total % Cover of:					·
Prevalence Index worksheet: Total X cover	Prevalence Index worksheet: Total Cover	Prevalence Index worksheet: Total Cover		—			That Are OBL, FACW, or FAC: 66.7 (A/B)
Total Cover	Total Cover of:	Total & Cover of: Multiply by:					Presidence Index workshoots
Sapling/Shrub Stratum (Plot size:	Saping/Shrub Stratum (Plot size: 15 15 15 15 15 15 15 16 16	Saping/Shrub Stratum	7				
Salix eriocephala / Multiflora rose, Multiflora rose 5 Yes FACW		1. Salix eniocephala / Missouri willow 5 Yes FACW		0	_ = Total Cov	/er	
2. Rosa multiflora i Multiflora rose, Multiflora rose	2. Rosa multiflora / Multiflora rose, Mu	2. Rosa multiflora / Multiflora rose, M	Sapling/Shrub Stratum (Plot size:)				· — — — — — — — — — — — — — — — — — — —
FACU species 45 x 4 = 180	FACU species 45	FACU species 45	1. Salix eriocephala / Missouri willow	5	Yes	FACW	
VPL species 0 x 5 = 0 Column Totals: 195 (A) 405 (B)	Very species Very	VPL species 0	2. Rosa multiflora / Multiflora rose, Multiflora rosa	5	Yes	FACU	
4. Column Totals: 195 (A) 405 (B) 7. There Stratum (Plot size: 5) 1. Leersia oryzoides / Rice cutgrass 50 Yes OBL 2. Solidago canadensis / Canada goldenrod 40 Yes FACU 3. Junus effusus / Common bog rush, Soft or lamp rush 30 Yes OBL 4. Doellingeria umbellata / Parasol white-top 30 Yes OBL 5. Carex intumescens / Greater bladder sedge 15 No FACW 6. Solidago rugosa / Wrinkle-leaf goldenrod 10 No FAC 6. Solidago rugosa / Wrinkle-leaf goldenrod 10 No FAC 7. Carex vulpinolael / Fox sedge, Brown fox sedge 5 No OBL 11.	A	4.	3.				<u> </u>
6. Column Iolais: 199 (A) 405 (B) Prevalence Index = BIA = 2.08 Prevalence Index = BIA = 2.08 Hydrophytic Vegetation Indicators:	6. Total Cover Herb Stratum (Plot size:5	Solidago canadensis / Canada goldenrod Leersia oryzoldes / Rice cutgrass 50 Yes OBL Solidago canadensis / Canada goldenrod Dellingeria umbellata / Parasol white-top Carex intumescens / Greater bladder sedge Solidago rayesa / Wrinkle-leaf goldenrod Carex vulpinoidea / Fox sedge, Brown fox sedge Carex scoparia / Pointed broom sedge Moody Vine Stratum (Plot size: 30) 1. Eersia oryzoldes / Rice cutgrass 50 Yes OBL Yes FACU A Dellingeria umbellata / Parasol white-top Solidago rugosa / Wrinkle-leaf goldenrod Definitions of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (am) tall. Woody vine Stratum (Plot size: 30) 1. Eersia oryzoldes / Fox Sedge. Brown fox sedge Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (am) tall. Woody vines - All woody vines greater than 3.28 ft in height.	4.				UPL species 0 x 5 = 0
6.	Prevalence Index = B/A = 2.08	Prevalence Index = B/A = 2.08	E				Column Totals:195 (A)405 (B)
Total Cover	Herb Stratum (Plot size:	Tree - Woody Vine Stratum (Plot size:	^				Prevalence Index = B/A = 2.08
Herb Stratum (Plot size: 5	10	Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0° 3 - Prevalence Index ≤3.0° 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Hydro					
The stratum Plot size: 5 Size	Herb Stratum (Plot size: 5 5 7	Herb Stratum (Plot size: 5 1 Leersia oryzoides / Rice cutgrass 50 Yes OBL 2 2 Dominance Test is >50% X 2 Dominance Test is >50% X 3 Prevalence Index \$\times 3.0" 4 Morphological Adaptations (Provide supporting and Fraction of Solidago rugosa / Wrinkle-leaf goldenrod 10 No FAC FACW 7 Carex vulpinoidea / Fox sedge 5 No OBL 10 Mo FACW 9 Mody Vine Stratum (Plot size: 30) 1 Mody Vine Stratum (Plot size: 30) Mody Vin	1.		T-tal Car		Hydrophytic Vegetation Indicators:
Leersia oryzoides / Rice cutgrass 50	Leersia oryzoides / Rice cutgrass 50 Yes OBL X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Hydrophytic Vegetation* (Explain) 4 - Morph	Herb Stratum (Plot size: 5 5 1 Leersia oryzoides / Rice cutgrass 50 Yes OBL X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 2 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Provide Supporting Problematic Hydrophytic Vegeta		10	_ = Iotal Cov	er	
1. Leersia oryzoides / Rice cutgrass 2. Solidago canadensis / Canada goldenrod 3. Juncus effusus / Common bog rush, Soft or lamp rush 4. Doellingeria umbellata / Parasol white-top 5. Carex intumescens / Greater bladder sedge 6. Solidago rugosa / Wrinkle-leaf goldenrod 7. Carex vulpinoidea / Fox sedge, Brown fox sedge 8. Carex scoparia / Pointed broom sedge 9. 10. 11. 12. 12. 13 Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology indicators of hydric soil and wetland h	1. Leersia oryzoides / Rice cutgrass 50 Yes OBL 2. Solidago canadensis / Canada goldenrod 40 Yes FACU 4. Morphological Adaptations (Provide supporting 7. Morphological Adaptations (Provide supporting 4. Morphological Adaptations (Provide supporting 7. Morphological Adaptations (Provide supporting 4. Morphological Adaptations (Provide supporting 4. Morphological Adaptations (Provide supporting 7. Morphological Adaptations (Provide supporting 4. Morphological Adaptations (Pr	1. Leersia oryzoides / Rice cutigrass 50 Yes OBL 2. Solidago canadensis / Canada goldenrod 40 Yes FACU 4. Doellingeria umbellata / Parasol white-top 30 Yes FACW 5. Carex intumescens / Greater bladder sedge 15 No FACW 6. Solidago rugosa / Wrinkle-leaf goldenrod 10 No FAC 7. Carex vulpinoidea / Fox sedge, Brown fox sedge 5 No OBL 8. Carex scoparia / Pointed broom sedge 5 No FACW 9. 10.					
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Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	Tree - Woody Vine Stratum (Plot size:	7. Carex vulpinoidea / Fox sedge, Brown fox sedge 8. Carex scoparia / Pointed broom sedge 9.					
8. Carex scoparia / Pointed broom sedge 5 No FACW 9.	8. Carex scoparia / Pointed broom sedge 5 No FACW 9. 10.	8. Carex scoparia / Pointed broom sedge 5 No FACW 9.					be present, unless disturbed or problematic.
9.	9.	9. 10. 11. 12. Moody Vine Stratum (Plot size: 30) 1. 2. 2. 3. 4. O = Total Cover					
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O				FACTV	Definitions of Vegetation Strata
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1	1	1			_ = Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
1	1	1	Woody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
2	2	2	4				
3	3	3	2				
4. O = Total Cover Hydrophytic Vegetation	4	4	3		_		
0 = Total Cover Hydrophytic Vegetation		0 = Total Cover Hydrophytic Vegetation Present? Yes X No	л				noight.
Vegetation	Vegetation Present? Yes X No	Vegetation Present? Yes X No	4.		- Total Cov		Ludranhutia
	Present? YesX No	Present? Yes X No			_ = Total Cov	er	
Present? Yes X NO							
ı		Remarks: (Explain alternative procedures here or in a separate report.)					Present? Yes X No
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SOIL Sampling Point: 086-2W

Depth	Matrix		Redox	k Features			ce of indicator	-,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	2.5Y 3/2	95	2.5YR 4/8	5	С	PL,M	Clay loam	
4-18	2.5Y 3/1	50	7.5YR 5/8	20	С	PL,M	Clay loam	
4-18	10YR 6/2	20	10YR 6/8	10	C	M	Clay loam	
	-							•
			-				•	-
	-							
ype: C=Cor	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=Pore Lining, M=Matrix.
duia Cail II	adiaatawa.						ludiostou	e fau Buchlametia Unduia Caile3.
dric Soil Ir			Debarelye Delev	v Cumfons (C)	0) (I DD D	MI DA 440		s for Problematic Hydric Soils ³ :
_ Histosol	` '		Polyvalue Belov					Muck (A10) (LRR K, L, MLRA 149B) st Prairie Redox (A16) (LRR K, L, R)
Black His	pipedon (A2)		Thin Dark Surfa Loamy Mucky M					Mucky Peat or Peat (S3) (LRR K, L, R)
_	n Sulfide (A4)		Loamy Gleyed N		(LIXIX IX, L)			Surface (S7) (LRR K, L)
_	I Layers (A5)		X Depleted Matrix					value Below Surface (S8) (LRR K, L)
	l Below Dark Surface ((A11)	X Redox Dark Sur					Dark Surface (S9) (LRR K, L)
_	ark Surface (A12)	(/ () /)	Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depressi					mont Floodplain Soils (F19) (MLRA 149B)
_	leyed Matrix (S4)			.00 (. 0)				c Spodic (TA6) (MLRA 144A, 145, 149B)
_	edox (S5)							Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
_	face (S7) (LRR R, M	LRA 149B)						r (Explain in Remarks)
ndicators of	hydrophytic vegetation	and wotland	t hydrology must be n	rocont unlos	e disturbo	l or problem	notio.	
ilulcators or	nyuropnytic vegetatioi	Tand Welland	Triydrology must be p	resent, unles		Tor problem	iatic.	
	ayer (if observed):							
Туре:							Hydria Sail E	Procent? Vos V No
			<u> </u>				Hydric Soil F	Present? Yes X No
Type: Depth (inc			<u> </u>				Hydric Soil F	Present? Yes X No
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Type: Depth (inc							Hydric Soil F	Present? Yes X No

Project/Site:	19020 - Sout	th Ripley	Ci	ty/County:	Chautauqua	County	Sampling Date:	08/06/2020
Applicant/Owner:		Conn	ectGen LLC		Si	tate: New York	Sampling Point:	087-1U
Investigator(s):	JK,		Se	ection, Township,	Range:	To	wn of Ripley	
Landform (hillslope, terrace	e, etc):	Hillslope		f (concave, conve		Convex	Slope	(%): 8
Subregion (LRR or MLRA):			Lat:		Long:	-79.709510		
			am, 3 to 8 percen			NWI classificati		
Are climatic / hydrologic co			ime of year? Ye	es X N	lo (If no	— , explain in Remarl	-	
Are Vegetation X,						rcumstances" pres	•	K No
	Soil, or H					lain any answers in		
SUMMARY OF FIND						•	·	
Hydrophytic Vegetation F		Yes	<u>-</u>		ampled Area	<u> </u>		
Hydric Soil Present?	rocont.	Yes			Wetland?	Yes	No X	
Wetland Hydrology Pres	ent?	Yes	· -		tional Wetland Sit		110	_
Remarks: (Explain altern Recently m PEM UPLA	owed	ere or in a sepa	rate report.)	I				
HYDROLOGY								
Wetland Hydrology Ind	icators:							
Primary Indicators (minir	num of one require	d; check all that	apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	•		Water-Stained Le	eaves (B9)	•		I Cracks (B6)	
High Water Table (A	1 2)		Aquatic Fauna (E	313)		Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits (B	15)			Lines (B16)	
Water Marks (B1)			Hydrogen Sulfide	Odor (C1)		Dry-Seasor	Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhizos	oheres on Living F	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)			Presence of Red	uced Iron (C4)		Saturation '	/isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	_	Recent Iron Red	uction in Tilled So	ils (C6)		Stressed Plants (D1	
Iron Deposits (B5)	,		Thin Muck Surface		,		c Position (D2)	,
Inundation Visible o	n Aerial Imagery (B		Other (Explain in			Shallow Aq		
Sparsely Vegetated				,			raphic Relief (D4)	
, ,	·					FAC-Neutra		
Field Observations:								
Surface Water Present?	Yes	No X	Denth (inches):					
Water Table Present?	-	NoX NoX	Depth (inches):		•			
Saturation Present?	Yes	NoX	Depth (inches): Depth (inches):		Wetlend Hy	dralami Dragant?	Voo	No. V
(includes capillary fringe	Yes	NO	Deptil (iliches).		welland nyt	drology Present?	Yes	No X
(includes capillary infige)							
Describe Recorded Data	ı (stream gauge, mo	onitoring well, a	erial photos, prev	ious inspections),	if available:			
Remarks:								
Tromano.								

VEGETATION - Use scientific names of plants.				Sampling	Point:	087-1U
				Dominance Test worksheet:		
				Number of Dominant Species		
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:	1	(A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	-		
1. Pinus strobus / Eastern white pine	15	Yes	FACU	Total Number of Dominant		
2. Malus / Apple	10	Yes		Species Across All Strata:	5	(B)
3.						
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	20.0	(A/B)
6						
7				Prevalence Index worksheet:		
	25	= Total Cov	er	Total % Cover of:	Multiply by	/ :
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1		
Rosa multiflora / Multiflora rose, Multiflora rosa	40	Yes	FACU	FACW species 0 x 2		
2. Rubus allegheniensis / Allegheny blackberry	15	Yes	FACU	FAC species 50 x 3		
3				FACU species 70 x 4		
4				UPL species 0 x 5		
5				Column Totals: 120 (A)) (B)
6				Prevalence Index = B/A =	3.58	
7				Hydrophytic Vegetation Indicators		
	55	_ = Total Cov	er	1 - Rapid Test for Hydrophytic V		
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%	cgctation	
Solidago rugosa / Wrinkle-leaf goldenrod	50	Yes	FAC	3 - Prevalence Index ≤3.01		
2	_	_		4 - Morphological Adaptations (I	Provide sun	norting
3	_	_		Problematic Hydrophytic Vegeta		-
4				residing riyarophytic regets	Allori (Explo	,
5				¹ Indicators of hydric soil and wetland	ł hydrology r	must
6				be present, unless disturbed or problem		naot
7				be precent, amost dictarbed of pres		
8				Definitions of Vegetation Strata		
9						
10.				Tree - Woody plants 3 in. (7.6 cm) or		meter at
11				breast height (DBH), regardless of he	eight.	
12				Sapling/shrub - Woody plants less t	than 3 in. DE	3H and
	50	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m)	tall.	
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) p	plants, regar	dless of
1				size, and woody plants less than 3.2	8 ft tall.	
2				Woody vines - All woody vines grea	ater than 3.28	8 ft in
3				height.		
4						
	0	_ = Total Cov	er	Hydrophytic		
				Vegetation		
				Present? Yes	No <u>X</u>	_
Remarks: (Explain alternative procedures here or in a separate	roport)			-		
Tremarks. (Explain alternative procedures here of in a separate	report.)					

SOIL Sampling Point: 087-1U

Profile Desc Depth	ription: (Describe to the Matrix	ne depth ne		e indicator Features	or confirm	the absen	ice of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rema	rks	
0-6	10yr 4/3	98	5yr 4/6	2	C	M	Clay loam			
6-14	2.5y 4/2	50	10yr 4/4	50	С	М	Clay laom			
	<u> </u>									
¹Type: C=Co	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Mask	ed Sand Gr	ains.		² Location	n: PL=Pore Lining, I	M=Matrix.	
Hydric Soil	ndicators:						Indicators fo	r Problematic Hyd	Iric Soils³:	
Histoso	(A1)		Polyvalue Below	Surface (S	8) (LRR R,	MLRA 149	B) 2 cm Mu	ck (A10) (LRR K, I	L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surface	ce (S9) (LR	R R, MLRA	149B)	Coast Pr	airie Redox (A16)	(LRR K, L, R)	
Black H	istic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm Mu	cky Peat or Peat (S	33) (LRR K, L, R	?)
	en Sulfide (A4)		Loamy Gleyed N	, ,	. ,			face (S7) (LRR K		
	d Layers (A5)		Depleted Matrix					e Below Surface (S		
Deplete	d Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)				k Surface (S9) (LF		
	ark Surface (A12)	,	Depleted Dark S					ganese Masses (F		R)
	Mucky Mineral (S1)		Redox Depressi					t Floodplain Soils (
	Gleyed Matrix (S4)			,				oodic (TA6) (MLRA		
	Redox (S5)							ent Material (F21)		•
	d Matrix (S6)							Illow Dark Surface	(TF12)	
	ırface (S7) (LRR R, ML	.RA 149B)						xplain in Remarks)	,	
	, , , , ,	•						. ,		
³ Indicators of	hydrophytic vegetation	and wetland	d hydrology must be pr	esent, unles	ss disturbed	or problem	natic.			
Restrictive I	_ayer (if observed):									
Type:	Rock									
Depth (ir	nches):	14					Hydric Soil Pres	ent? Yes	No X	(
Remarks:										
	Rock refusal									

Project/Site:	19020 - South Ripley	C	ity/County:	Chautauqua (County	Sampling Date:	08/06/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	•	ate: New York		087-1W
Investigator(s):	RM JK	S	ection, Township, R			vn of Ripley	
Landform (hillslope, terrace			ef (concave, convex,		Concave	. ,	(%): Gentle
	LRR R MLRA 139			Long:	-79.7097176		
Soil Map Unit Name:		Erie silt loam			NWI classification		PEM
	nditions on the site typical for		es X No	(If no	explain in Remark		
, ,	Soil, or Hydrology	•	listurbed?	` '	cumstances" prese	,	(No
	Soil , or Hydrology				ain any answers in		<u> </u>
	NGS - Attach site ma			•	•	•	
					its, important	icatares, etc.	
Hydrophytic Vegetation P		X No		npled Area			
Hydric Soil Present?		X No	within a V		Yes X		_
Wetland Hydrology Prese	ent? Yes	X No	If yes, opti	onal Wetland Site	e ID:	PEM	
Remarks: (Explain alterna	ative procedures here or in a	senarate renort)					
remarks. (Explain alterna	ative procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indi	cators:						
Primary Indicators (minim	num of one required; check a	ill that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)		Water-Stained L	eaves (B9)		Surface Soil	Cracks (B6)	
X High Water Table (A	2)	Aquatic Fauna (B13)		X Drainage Pa	atterns (B10)	
X Saturation (A3)	•	Marl Deposits (E			Moss Trim L		
Water Marks (B1)		Hydrogen Sulfid	•			Water Table (C2)	
Sediment Deposits ((B2)	X Oxidized Rhizos		oots (C3)	Crayfish Bu		
Drift Deposits (B3)	,	Presence of Rec	•	,		isible on Aerial Ima	agery (C9)
Algal Mat or Crust (E	34)		luction in Tilled Soils	s (C6)		Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Surfa		()	X Geomorphic	•	,
1 - ' ' '	n Aerial Imagery (B7)	Other (Explain in			Shallow Aqu		
	Concave Surface (B8)					aphic Relief (D4)	
oparcory regeration	20110010 0011000 (20)				X FAC-Neutra		
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)	: 0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)							
Describe Recorded Data	(stream gauge, monitoring v	vell, aerial photos, pre	vious inspections), if	available:			
Remarks:							
rtomano.							

/EGETATION - Use scientific names of plants.				Sampling Point: 087-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Trac Ctratum (Plat size: 20)	%Cover			That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	<u>Status</u>	T (al Alimatica of Dominant
1				Total Number of Dominant
2				Species Across All Strata: 3 (B)
3				
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B)
6.				· — —
7.				Prevalence Index worksheet:
'		= Total Cov	Ver	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_ = 1010	Cı	OBL species 20 x 1 = 20
	_	Voo	E4 0\4/	FACW species 65 x 2 = 130
1. Salix alba / White willow	5		FACW	FAC species 0 x 3 = 0
2				
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 85 (A) 150 (B)
<u> </u>				Prevalence Index = B/A = 1.76
ĵ				1 TOVALORIOS
7				Hydrophytic Vegetation Indicators:
	5	_ = Total Cov	ver	X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5	_	_		
1. Impatiens capensis / Spotted jewelweed	40	Yes	FACW	X 2 - Dominance Test is >50%
Cuscuta gronovii var. gronovii / Scaldweed	30	Yes	1714:	X 3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
3. Onoclea sensibilis / Sensitive fern	20	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4. Symphyotrichum puniceum / Purple-stem american-aster	20	No	OBL	T Toblemano rijareprija
5. Polygonum virginianum / Jumpseed	5	No		The stand hydrology must
<u>, , , , , , , , , , , , , , , , , , , </u>				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
40	_			
12		Total Co		Sapling/shrub - Woody plants less than 3 in. DBH and
	ไป	_ = Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
2				height.
4.		_		neight.
4.		Tital Cor		
	0	_ = Total Cov	/er	Hydrophytic
				Vegetation
				Present? Yes X No
				<u> </u>
Remarks: (Explain alternative procedures here or in a separate	e report.)			
• •				

SOIL Sampling Point: 087-1W

(inches)	Matrix		Redox	k Features			nce of indicator			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	2.5Y 2.5/1	80	5YR 4/6	20	C	PL,M	Clay mucky loa			
10-18	2.5Y 3/1	60	10YR 7/8	40	С	M	Clay loam	Concretion	ns and cobbley	
								-		
			-							
	-		_		 -			-		
Type: C=Cor	ncentration, D=Depletion	, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ition: PL=Pc	ore Lining, M=Matrix.	
ydric Soil I	ndicators:						Indicators	for Proble	matic Hydric Soils³:	
Histosol			Polyvalue Belov	v Surface (Sa	B) (LRR R,	MLRA 149			(LRR K, L, MLRA 149	В)
	pipedon (A2)		Thin Dark Surfa						dox (A16) (LRR K, L, F	-
Black Hi	stic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm	Mucky Peat	t or Peat (S3) (LRR K,	_, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark	Surface (S7	') (LRR K, L)	
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below	Surface (S8) (LRR K,	_)
Depleted	d Below Dark Surface (A	11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfac	e (S9) (LRR K, L)	
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-N	Manganese	Masses (F12) (LRR K	, L, R)
Sandy M	lucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	nont Floodp	lain Soils (F19) (MLRA	149B)
Sandy G	Sleyed Matrix (S4)						Mesic	Spodic (TA	(MLRA 144A, 145,	149B)
	Redox (S5)							Parent Mate		
	Matrix (S6)								rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLF	RA 149B)					Other	(Explain in	Remarks)	
Indicators of	hydrophytic vegetation a	and wetlan	d hydrology must be p	resent, unles	s disturbed	or probler	natic.			
Restrictive L	.ayer (if observed):									
Type:	.,.									
	choc):						Hydric Soil P	resent?	Yes X No	
Depth (in	Liles).									
• •	uies).									
• •	<u> </u>									
• •	<u> </u>									
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• •	Cites).									
Depth (in	Cites).									
• •	Cites).									
	Cites).									
	Cites).									
• •	Cites).									
• •	Cites).									
	Cites).									

Project/Site:	19020 - South Ripl	lev	City/County:	Chautauqua (County	Sampling Date:	08/10/2020
Applicant/Owner:	1		, , <u> </u>		ate: New York		088-1U
Investigator(s):	RM JK		Section, Township, F			wn of Ripley	
Landform (hillslope, terrace		t Local re	lief (concave, convex		Convex		(%): Gentle
Subregion (LRR or MLRA)			•	Long:	-79.712057		· ·
Soil Map Unit Name:					NWI classification		10.00
Are climatic / hydrologic co				o (If no,	_		
, ,	Soil, or Hydrold	•			cumstances" prese	•	. No
	Soil, or Hydrold				ain any answers in		
					•	•	
SUMMARY OF FIND			piirig poirit ioca	tions, transec	is, important	reatures, etc.	
Hydrophytic Vegetation I		NoX_	-	mpled Area			
Hydric Soil Present?	Yes	No X	within a	Wetland?	Yes	No X	_
Wetland Hydrology Pres	ent? Yes	NoX	_ If yes, op	tional Wetland Site	e ID:		
Domarks: (Evolain altern	native procedures here or	in a congrate report \	<u> </u>				
i Nemarks. (Explain alten	lative procedures riere or	iii a separate report.)					
HYDROLOGY							
Wetland Hydrology Ind	licators:						
	mum of one required; che	ck all that apply)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1)	•	Water-Stained	I Leaves (B9)			l Cracks (B6)	
High Water Table (A		Aquatic Fauna	` '			atterns (B10)	
Saturation (A3)	- /	Marl Deposits			Moss Trim I		
Water Marks (B1)			fide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		ospheres on Living R	Poots (C3)	Crayfish Bu		
· ·	(DZ)			10015 (C3)		/isible on Aerial Ima	gon, (CO)
Drift Deposits (B3)	(D4)		Reduced Iron (C4)	In (CC)			
Algal Mat or Crust ((64)		eduction in Tilled Soi	is (Cb)		Stressed Plants (D1)
Iron Deposits (B5)	A : 11 (DZ)	Thin Muck Su				Position (D2)	
	on Aerial Imagery (B7)	Other (Explain	in Remarks)		Shallow Aq		
Sparsely Vegetated	I Concave Surface (B8)					raphic Relief (D4)	
					FAC-Neutra	i lest (D5)	
Field Observations:							
Field Observations: Surface Water Present?	Yes N	o X Denth (inche	·e).				
Surface Water Present?		o X Depth (inche					
Surface Water Present? Water Table Present?	Yes N	o X Depth (inche	es):	Wotland Hyd	rology Procent?	Vas	No. Y
Surface Water Present? Water Table Present? Saturation Present?	Yes No	o X Depth (inche	es):	Wetland Hyd	rology Present?	Yes	NoX
Surface Water Present? Water Table Present?	Yes No	o X Depth (inche	es):	Wetland Hyd	rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes No	o X Depth (inche	es):		rology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes No	o X Depth (inche	es):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes No	o X Depth (inche	es):		rology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	es):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	28):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	28):		rology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes No	o X Depth (inche	28):		rology Present?	Yes	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 088-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Carpinus caroliniana / American hornbeam	35	Yes	FAC	Total Number of Dominant
2. Prunus serotina / Black cherry	20	Yes	FACU	Species Across All Strata: 5 (B)
3. Malus / Apple	15	No		
4. Acer rubrum / Red maple	10	No	FAC	Percent of Dominant Species
5. Fraxinus pennsylvanica / Green ash	5	No	FACW	That Are OBL, FACW, or FAC: 60.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	85	= Total Cov	er er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species15 x 2 =30
2				FAC species65 x 3 =195
3.				FACU species 30 x 4 = 120
4				UPL species 0 x 5 = 0
5				Column Totals: 110 (A) 345 (B)
6				Prevalence Index = B/A = 3.14
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Carpinus caroliniana / American hornbeam	20	Yes	FAC	3 - Prevalence Index ≤3.0¹
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Potentilla simplex / Oldfield cinquefoil	10	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Rubus / Blackberry	5	No		Troblematio Trydrophytic Vegetation (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				bo process, unloce dictarged of problematic.
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	45	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4		_		
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	te renort)			
Remarks. (Explain alternative procedures here of in a separa	te report.)			

SOIL Sampling Point: 088-1U

Depth	ription: (Describe to t Matrix			x Features	Jonnin	420011	J. maioutol	,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-1	5YR 2.5/2	100	. , ,				Loam				
1-18	10YR 3/1	50	7.5YR 4/6	10	C	M	Loam				
1-18	10YR 5/3	40					Loam				
	-										
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, N	1=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydı	ric Soils³:	
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R,	MLRA 149E) (LRR K, L		9B)
	pipedon (A2)		Thin Dark Surfa						edox (A16)		-
	istic (A3)		Loamy Mucky N			. ,			at or Peat (S		
	en Sulfide (A4)		Loamy Gleyed		,				7) (LRR K ,		
	d Layers (A5)		Depleted Matrix				Polyv	alue Below	Surface (S	3) (LRR K,	L)
Deplete	d Below Dark Surface ((A11)	Redox Dark Su	rface (F6)			Thin	Dark Surfa	ce (S9) (LR	RK, L)	
Thick D	ark Surface (A12)		Depleted Dark	Surface (F7)			Iron-I	Manganese	Masses (F1	2) (LRR F	K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedr	mont Flood	plain Soils (F	19) (MLR 4	A 149B)
Sandy 0	Gleyed Matrix (S4)						Mesi	c Spodic (T	A6) (MLRA	144A, 145	i, 149B)
Sandy F	Redox (S5)						Red I	Parent Mat	erial (F21)		
Stripped	d Matrix (S6)						Very	Shallow Da	ark Surface (TF12)	
Dark Su	ırface (S7) (LRR R, M	LRA 149B)					Other	r (Explain ir	n Remarks)		
3Indicators of	hydrophytic vegetation	and wattand	hydrology must be n	rocent unles	a diaturbad	or problem	otio				
indicators of	Trydropriytic vegetation	Tanu Welland	Trydrology must be p	mesent, unies	ss distuibed	or problem	auc.				
	_ayer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil P	resent?	Yes	No	X
Remarks:											

Project/Site:	19020 - Sout	th Ripley	City/Coun	nty: Ch	autauqua County	Sampling Date:	08/10/2020
Applicant/Owner:		ConnectGe			State: New York	Sampling Point:	088-1W
Investigator(s):	RM,			Township, Range:		wn of Ripley	
Landform (hillslope, terra		naped depression					(%): 0
Subregion (LRR or MLRA		MLRA 139		9123458	Long: -79.712177		
Soil Map Unit Name:	•		rd silt loam		NWI classificat	-	FO
Are climatic / hydrologic				(No	(If no, explain in Remar		
, ,	, Soil , or H		gnificantly disturbed		Normal Circumstances" pres	,	No
	, Soil, or H				eded, explain any answers in		
					transects, important	•	
		-			-	reatures, etc.	
Hydrophytic Vegetation	n Present?			Is the Sampled			
Hydric Soil Present?				within a Wetland			
Wetland Hydrology Pro	esent?	Yes X No		If yes, optional W	/etland Site ID:	088-1W PFO	
Remarks: (Explain alte	ernative procedures he	ere or in a senarate r	enort)				
rtemarks. (Explain alte	smative procedures no	cic or iii a separate i	сроги.)				
HYDROLOGY							
Wetland Hydrology In	ndicators:						
Primary Indicators (mi	nimum of one required	d; check all that apply	y)		Secondary Indic	ators (minimum of tw	vo required)
Surface Water (A	.1)	X Wate	r-Stained Leaves (E	B9)	Surface So	il Cracks (B6)	
High Water Table	(A2)	Aqua	itic Fauna (B13)		Drainage P	atterns (B10)	
Saturation (A3)		Marl	Deposits (B15)		Moss Trim	Lines (B16)	
Water Marks (B1))	Hydr	ogen Sulfide Odor ((C1)	Dry-Seaso	n Water Table (C2)	
Sediment Deposi	its (B2)	Oxidi	ized Rhizospheres	on Living Roots (C		ırrows (C8)	
Drift Deposits (B3	` '		ence of Reduced Iro	•		Visible on Aerial Ima	gery (C9)
Algal Mat or Crus	•		ent Iron Reduction in	` '		Stressed Plants (D1)	
Iron Deposits (B5			Muck Surface (C7)			c Position (D2)	
I — ' '	e on Aerial Imagery (B		r (Explain in Remar		Shallow Ac		
	ed Concave Surface (. (=xp.a : toa.			raphic Relief (D4)	
11 oparoury regular	04 0004.0 04400 ((20)			X FAC-Neutr		
Field Observations:							
Field Observations: Surface Water Presen	t? Yes		oth (inches):				
	t? Yes Yes		oth (inches):				
Surface Water Presen		No X Dep			tland Hydrology Present?	Yes X	No
Surface Water Presen Water Table Present?	Yes	No X Dep	oth (inches):	We	tland Hydrology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present?	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes Yes	No X Dep	oth (inches):			Yes X	No

Absolute Dominant Indicator Scover Species Status Total Number of Dominant Species Status Total Number of Dominant Species Species Species Status Species Spec	VEGETATION - Use scientific names of plants.				Sampling Point:088-1W
Absolute Species Species Status Total Norther OBL, FACW, or FAC: 4 (A)					Dominance Test worksheet:
Tree Stratum					Number of Dominant Species
1.				Indicator	That Are OBL, FACW, or FAC: 4 (A)
Species Across All Strata: 5 (B) 3			- 		
Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B)	·	65	Yes	FAC	
Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (AVB)					Species Across All Strata: 5 (B)
That Are OBL, FACW, or FAC: 80.0 (AB)					
Free Name Free				-	
Prevalence Index worksheet:	•				That Are OBL, FACW, or FAC: 80.0 (A/B)
Total % Cover of:	7				Prevalence Index worksheet:
Saping/Shrub Stratum (Plot size: 15 15 20 Yes FACW	1.		- Total Cov		
Faxinus pennsylvanica Green ash 20 Yes FACW FA	Sanling/Shruh Stratum (Dlot size: 15)	05	_ = 10(a) 00v	er	
FAC species Record Recor		20	Yes	FACW	· · · · · · · · · · · · · · · · · · ·
FACU species 25 x 4 = 100					
A	2		165	1700	·
Second Stratum Continuous Stratum Con					
7.	5				Column Totals: <u>185</u> (A) <u>475</u> (B)
Tree - Woody Vine Stratum (Plot size:					
Herb Stratum (Plot size: 5) 1. Lycopus americanus / Bugleweed 30 Yes OBL 2. Solidago rugosa / Wrinkle-leaf goldenrod 20 Yes FAC 3. Doellingeria umbellata / Parasol white-top 15 No FACW 4. Onoclea sensibilis / Sensitive fern 10 No FACW 5. Rosa multiflora rose, Multiflora rose 10 No FACW 6. Company 6. Comp	_				
Lycopus americanus / Bugleweed 30	··		= Total Cov	er	
1. Lycopus americanus / Bugleweed 30 Yes OBL Solidago rugosa / Wrinkle-leaf goldenrod 20 Yes FAC 3. Doellingeria umbellata / Parasol white-top 15 No FACW 4. Onoclea sensibilis / Sensitive fern 10 No FACW 5. Rosa multiflora / Multiflora rose, Multiflora rose, Multiflora rose 10 No FACU 5. Rosa multiflora / Multiflora rose, Multiflora rose 10 No FACU 7. Sensitive fern 10 No FACU 8. Sensitive fern 10 No FACU 7. Sensitive fern 10 No FACU 8. Sensitive fern 10 No FACU 7. Sensitive fern 10 No FACU 8. Sensitive fern 10 No FACU 9. Sensitive	Herb Stratum (Plot size: 5)			OI .	
2. Solidago rugosa / Wrinkle-leaf goldenrod 2. O Yes FAC 3. Doellingeria umbellata / Parasol white-top 4. Onoclea sensibilis / Sensitive fern 5. Rosa multiflora / Multiflora rose, Multiflora rose 6. 7.		30	Yes	OBL	
3. Doellingeria umbellata / Parasol white-top 4. Onoclea sensibilis / Sensitive fern 5. Rosa multiflora / Multiflora rose, Multiflora rosa 6.					
4. Onoclea sensibilis / Sensitive fern 5. Rosa multiflora / Multiflora rose, Multiflora rosa 6.					1 -
5. Rosa multiflora / Multiflora rose, Multiflora rosa 6.					Problematic Hydrophytic Vegetation¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata					
be present, unless disturbed or problematic. B	· · · · · · · · · · · · · · · · · · ·				, , , , , , , , , , , , , , , , , , , ,
9.		_	_		be present, unless disturbed or problematic.
9.	8.		_		Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:	0				Definitions of regulation of the
11					Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
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)	11.				
Woody Vine Stratum (Plot size: 30) 1.	12.	<u> </u>			Sapling/shrub - Woody plants less than 3 in. DBH and
1. size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No			= Total Cov	er	
1. size, and woody plants less than 3.28 ft tall. 2. Woody vines - All woody vines greater than 3.28 ft in height. 4. Hydrophytic Vegetation Vegetation Present? Yes X No	Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
3	1				
3	2				Woody vines - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Vegetation Present? Yes X No	3				
Vegetation Present? Yes X No	4				
Present? Yes X No		0	_ = Total Cov	er	
Description of the second control of the second control of the second control of the second of the s					Present? Yes X No
Domarke: /Evalur atternative procedures pero or in a separate report i	Remarks: (Explain alternative procedures here or in a separate	report)			

SOIL Sampling Point: 088-1W

Depth	iption: (Describe to the Matrix			Features				,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	5GY 5/1	60	10yr 5/6	40	C	M	Clay/Loam	
								-
	-							
Type: C=Con	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ked Sand Gra	ains.		² Locat	tion: PL=Pore Lining, M=Matrix.
lydric Soil Ir	ndicators:						Indicators	for Problematic Hydric Soils³:
Histosol			Polyvalue Below	V Surface (S8	3) (LRR R, l	MLRA 149		Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	Thin Dark Surfa					Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)	_	Loamy Mucky M	lineral (F1)	(LRR K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	-	X Loamy Gleyed N	Matrix (F2)			Dark S	Surface (S7) (LRR K, L)
	Layers (A5)	-	Depleted Matrix	,				alue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	-	Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	-	Redox Depressi	ons (F8)			·	nont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5) Matrix (S6)							Parent Material (F21) Shallow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149B)						(Explain in Remarks)
Bank Gan	(27) (2111111, III2							(Explain in Formatio)
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problem	atic.	
Restrictive L	ayer (if observed):							
Type:	. , (
Depth (inc							Hydric Soil Pr	resent? Yes X No
Remarks:								

Project/Site:	19020 - South Ripley	City/Cou	inty: Chautauqu	ia County	Sampling Date:	08/19/2020
Applicant/Owner:	' '	ConnectGen LLC		State: New York		089-1W
Investigator(s):	JK,SPF		Township, Range:		n of Ripley	
Landform (hillslope, terrace	•		cave, convex, none):	Concave		(a): 3-8
	LRR R MLRA 13		19084638 Long:			NAD 83
				NWI classificatio		
· · · · · · · · · · · · · · · · · · ·		this time of year? Yes	X No (If r	no, explain in Remarks		
, ,	Soil, or Hydrology	· -	`	Circumstances" preser	,	No
		naturally problematic		plain any answers in I		
		p showing sampling p		•	•	
				ects, important i	eatures, etc.	
Hydrophytic Vegetation F		X No	Is the Sampled Area			
Hydric Soil Present?		X No	within a Wetland?	Yes X		
Wetland Hydrology Prese	ent? Yes	X No	If yes, optional Wetland S	Site ID:	089-1W PEM	
Remarks: (Explain altern	ative procedures here or in a	separate report)	1			
Tromanion (Explain altoni	a o p. o o o a a. o o o o o o o o o o o o o o					
LIVEROL COV						
HYDROLOGY						
Wetland Hydrology Ind	icators:					
Primary Indicators (minin	num of one required; check a	Ill that apply)		Secondary Indica	tors (minimum of two	required)
Surface Water (A1)		Water-Stained Leaves	(B9)	Surface Soil	Cracks (B6)	
High Water Table (A	.2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)		Marl Deposits (B15)		Moss Trim Li	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits	(B2)	X Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur		
Drift Deposits (B3)		Presence of Reduced I	ron (C4)	Saturation V	isible on Aerial Image	ery (C9)
Algal Mat or Crust (I	B4)	Recent Iron Reduction	in Tilled Soils (C6)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface (C7	·)	X Geomorphic	Position (D2)	
Inundation Visible o	n Aerial Imagery (B7)	Other (Explain in Rema	arks)	Shallow Aqu	itard (D3)	
Sparsely Vegetated	Concave Surface (B8)			Microtopogra	aphic Relief (D4)	
				X FAC-Neutral	Test (D5)	
Field Observations						
Field Observations:	Van Na	V Donth (inches)				
Surface Water Present?	Yes No _	X Depth (inches): X Depth (inches):				
Water Table Present?	Yes No _	' ' '			V V I	\.\.
Saturation Present?	Yes No	X Depth (inches):	wetland H	ydrology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data	(stream gauge, monitoring v	vell, aerial photos, previous ir	spections), if available:			
	(22.22 32.32) 2 22 3	, , , , , , , , , , , , , , , , , , ,	.,,			
Remarks:						

Tree Stratum (Plot size:30)				
``				Dominance Test worksheet:
``				Number of Dominant Species
``	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
	%Cover	Species?	Status	
Fraxinus pennsylvanica / Green ash	15	Yes	FACW	Total Number of Dominant
2.				Species Across All Strata: 5 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				That i a c c c c c c c c c c c c c c c c c c
·				Prevalence Index worksheet:
ł	15	= Total Cov		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		10(a) 000	Ci	OBL species 0 $x = 0$
<u> </u>				FACW species 85 x 2 = 170
				FAC species 40 x 3 = 120
2.	_	-		FACU species 0 x 4 = 0
3		-		UPL species 0 x 5 = 0
4		_		Column Totals: 125 (A) 290 (B)
5		_		Prevalence Index = B/A = 2.32
6		_		Prevalence index = B/A = 2.32
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
Solidago rugosa / Wrinkle-leaf goldenrod	30	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
2. Solidago gigantea / Smooth goldenrod	30	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	
4. Onoclea sensibilis / Sensitive fern	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Verestation Streets
0			-	Definitions of Vegetation Strata
				To a Manda de la 17 O and a manda dispersion di
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11 12		_		
12	100	= Total Cov	or.	Sapling/shrub - Woody plants less than 3 in. DBH and
Moody Vino Stratum (Plot size: 20)	100	_ = 10tal C0V	CI	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)	10	Vac	FAC	Herb - All herbaceous (non-woody) plants, regardless of
Toxicodendron radicans / Eastern poison ivy	10	Yes	FAC	size, and woody plants less than 3.28 ft tall.
2.	_			Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4		_		
	10	_ = Total Cov	er	
				Present? Yes X No
4.	10	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No

SOIL Sampling Point: ____089-1W

Depth	ription: (Describe to t Matrix			k Features		400011		,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10yr 3/2	95	7.5yr 4/6	5	С	PL,M	Silt losm			
8-18	10yr 6/1	65	7.5yr 5/8	20	C	M	Clay loam			
8-18	10yr 3/2	15		_	C	M	Loam			
	-									
	· -							-		
			-	_						
				-						
				_						
	-		-	-			-			
	-									
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	rains.		²Loca	ation: PL=P	ore Lining, M=M	latrix.
lydric Soil I	ndicators:						Indicator	s for Proble	ematic Hydric S	Soils ³ :
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149)) (LRR K, L, MI	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LR	-
	istic (A3)		Loamy Mucky M			-			at or Peat (S3) (
	en Sulfide (A4)		Loamy Gleyed I		, ,				7) (LRR K, L)	
Stratifie	d Layers (A5)		X Depleted Matrix	(F3)			Poly	value Below	V Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface ((A11)	X Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR K	(, L)
	ark Surface (A12)		Depleted Dark S					-	e Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)							Parent Mate		0)
	d Matrix (S6) Irface (S7) (LRR R, M	I DA 140D\							ark Surface (TF1 n Remarks)	2)
Dark Su	inace (57) (LKK K, W	LKA 149D)					Othe	i (⊏xpiaiii ii	i Remarks)	
Indicators of	hydrophytic vegetation	n and wetland	d hydrology must be p	resent, unles	ss disturbed	l or problem	natic.			
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil F	resent?	Yes X	No
	· -									
Remarks:										

Project/Site:	19020 -	- South Ripley		City/County	<i>/</i> :	Chautauqua (County	Sampling Date:	08/11/2020
Applicant/Owner:		· · ·	nnectGen LLC	, ,			ate: New York		090-1U
Investigator(s):		RM JK		Section, To	wnship, Rang	ge:	Tov	wn of Ripley	
Landform (hillslope, terra	ce, etc):	Flat	Local re	elief (concave	e, convex, no	ne):	None	Slope	(%): Gentle
Subregion (LRR or MLRA	A): LF	RR R MLRA 139	Lat:	42.189	951959	Long:	-79.701397	49 Datur	n: NAD 83
Soil Map Unit Name:			Erie silt loam				NWI classification	on:	
Are climatic / hydrologic o	conditions on the	e site typical for thi	s time of year?	Yes X	No	(If no,	_ explain in Remark	(s.)	
Are Vegetation	, Soil	, or Hydrology	significantly	/ disturbed?	Ar	e "Normal Circ	cumstances" prese	ent? Yes	X No
Are Vegetation	, Soil	, or Hydrology	naturally pr	oblematic?	(If	needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINI	DINGS - Atta	ach site map s	howing sam	pling poi	nt location	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X		s the Sampl		•	•	
Hydric Soil Present?		Yes	No X		within a Wet		Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	_		al Wetland Site			_
				_ '	,,				
Remarks: (Explain alte	rnative procedu	res here or in a se	parate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicatore:								
Primary Indicators (mir		auired: check all th	nat apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A		quired, cricek all til	Water-Stained	l Leaves (R0	9)	-		l Cracks (B6)	two required)
High Water Table	•		Aquatic Fauna	•) 			atterns (B10)	
Saturation (A3)	(12)		Marl Deposits				Moss Trim I		
Water Marks (B1)			Hydrogen Sul		:1)			Water Table (C2)	
Sediment Deposit		_	Oxidized Rhiz			s (C3)	Crayfish Bu		
Drift Deposits (B3		_	Presence of R	-	-	3 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Crus	•	_	Recent Iron R			:6)		Stressed Plants (D	
Iron Deposits (B5		_	Thin Muck Su		111100 00110 (0	,0,		Position (D2)	•,
Inundation Visible		erv (B7)	Other (Explain	` ,	s)		Shallow Aqu		
Sparsely Vegetate	_		_		-,			raphic Relief (D4)	
		(= 0)					FAC-Neutra		
Field Observations:									
Surface Water Present		NoX	_ ' '	· -					
Water Table Present?		No X		· —					
Saturation Present?	Yes	NoX	Depth (inche	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	je)								
Describe Recorded Da	ita (stream gaug	ie monitoring well	aerial photos p	revious inspe	ections) if av	ailable:			
Describe Necorded Ba	ita (Sircam gaag	je, morntoring wen,	deriai priotos, p	revious mope	collorio), ii av	allabic.			
Remarks:									
i .									

VEGETATION - Use scientific names of plants.				Sampling Point:090-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That Are OBL, FACW, OF FAC. (A)
· · · · · · · · · · · · · · · · · · ·	76COVEI	Species	Status	Total Number of Deminant
1.		_	_	Total Number of Dominant
2.				Species Across All Strata: 2 (B)
3.	_			
4				Percent of Dominant Species
5			_	That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Burnelana ladar madalahagi
7				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.			_	FACW species 10 x 2 = 20
2				FAC species 10 x 3 = 30
3.				FACU species 200 x 4 = 800
4.				UPL species 0 x 5 = 0
5.		_		Column Totals: <u>220</u> (A) <u>850</u> (B)
6.				Prevalence Index = B/A = 3.86
7				
1.		= Total Cov		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ = 10(a) 007	EI	1 - Rapid Test for Hydrophytic Vegetation
	20	Vac	FACIL	2 - Dominance Test is >50%
Dactylis glomerata / Orchardgrass District and the Continue to the Co	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Phleum pratense / Common timothy, Cultivated timothy	30	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	15	No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Galium / Bedstraw	10	No		
5. Trifolium pratense / Red clover	10	No	FACU	¹Indicators of hydric soil and wetland hydrology must
6. Trifolium repens / White clover	10	No	FACU	be present, unless disturbed or problematic.
7. Eupatorium perfoliatum / Common boneset	5	No	FACW	be present, unless disturbed of problematic.
8. Solidago canadensis / Canada goldenrod	5	No	FACU	Definitions of Vegetation Strata
9. Rumex crispus / Curly dock	5	No	FAC	2000
10.		<u> </u>		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		_	<u> </u>	breast height (DBH), regardless of height.
12.		_		Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_	.	
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				
2.				Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4		- 		Hadasahadia
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
				<u>. I</u>
Remarks: (Explain alternative procedures here or in a separat	e report.)			

SOIL Sampling Point: 090-1U

Depth	ription: (Describe to the Matrix			x Features				•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-12	10YR 3/3	100					Loam				
12-17	10YR 5/3	90	10YR 5/8	10	C	M	Loam	-			
				_							
					· —— -						
	-							-			
	-							-			
	-						-				
	·	· ——									
					· —— -			-			
Type: C=Co	 ncentration, D=Depletio	n DM-Dodu	ood Matrix MS=Mac	kod Sand Cr	raine		21 000	tion: DI =D	ore Lining, N	1-Matrix	
Type. C=Col	——————————————————————————————————————	ii, Rivi-Reuu	Led Matrix, MS-Mas	Skeu Sanu Gi	allis.		LUCA	IIIOII. FL=F	ore Lilling, it	/i-iviati ix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydi	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R,I	MLRA 149E	3) 2 cm	Muck (A10) (LRR K, L	, MLRA 149E	3)
Histic E	oipedon (A2)		Thin Dark Surfa	ace (S9) (LR	RR R, MLRA	149B)	Coas	t Prairie Re	edox (A16)	(LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucky N	Mineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S	3) (LRR K, L	., R)
— Hydroge	en Sulfide (A4)		Loamy Gleyed	Matrix (F2)					7) (LRR K,		
	d Layers (A5)		Depleted Matrix					-		3) (LRR K, L	.)
	d Below Dark Surface (A11)	Redox Dark Su	. ,					ce (S9) (LR		•
	ark Surface (A12)	,	Depleted Dark) , , (LRR K,	L. R)
	Mucky Mineral (S1)		Redox Depress					ū	•	19) (MLRA	
	Gleyed Matrix (S4)			()						144A, 145,	
	Redox (S5)							Parent Mat			,
	Matrix (S6)								ark Surface (TF12)	
	rface (S7) (LRR R, ML	RA 149R)							n Remarks)	,	
Dank Ou	nace (or) (Errich, III.	-104 1400)						(Explain ii	i remains)		
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	oresent, unles	ss disturbed	or problem	atic.				
.	<i></i>										
	.ayer (if observed):										
Type:	1 \										
Depth (in	ches):						Hydric Soil P	resent?	Yes	No _	<u>X</u>
Remarks:											
tomanto.											

Project/Site:	19020 - South Ripley	Cit	ty/County:	Chautauqua (County	Sampling Date:	08/11/2020
Applicant/Owner:		ConnectGen LLC	, , <u> </u>	•	ate: New York		090-1W
Investigator(s):	JK,RM	Se	ction, Township, Ra			vn of Ripley	
Landform (hillslope, terrac			(concave, convex,		Cone	. ,	(%): 0-3
): LRR R MLRA 139		•		-79.701779°		`
					NWI classification		PEM
	onditions on the site typical for		s X No	(If no	explain in Remark		
, ,	Soil, or Hydrology	•			cumstances" prese		(No
	Soil , or Hydrology				ain any answers in		<u> </u>
	INGS - Attach site ma				•	•	
				·	its, important	icatures, etc.	
Hydrophytic Vegetation		X No		pled Area			
Hydric Soil Present?		X No	within a W		Yes X		_
Wetland Hydrology Pres	sent? Yes	X No	If yes, option	onal Wetland Site	e ID:	090-1W PEM	
Remarks: (Explain alter	native procedures here or in a	senarate report)	<u> </u>				
Tromano. (Explain alton	idavo procedures nore er in a	ooparato roporti,					
HYDROLOGY							
Wetland Hydrology Inc	dicators:						
Primary Indicators (mini	mum of one required; check a	ill that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1))	Water-Stained Le	eaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B	13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposits (B	15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	(B2)	X Oxidized Rhizosp	heres on Living Ro	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of Redu	uced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Recent Iron Redu	uction in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface	ce (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	d Concave Surface (B8)	_			X Microtopogr	aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
F: 1101 #							
Field Observations:	. V N-	V Dth (ih)					
Surface Water Present?		X Depth (inches):					
Water Table Present?	Yes No	X Depth (inches):		\A/-41		V V	NI-
Saturation Present?	Yes No _	X Depth (inches):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	;)						
Describe Recorded Data	a (stream gauge, monitoring v	vell aerial photos previ	ous inspections) if	available:			
Booding Hoodided Ball	x (on oam gaago, montoring v	ion, donai priotoo, provi	odo mopodiono, n	availabio.			
Remarks:							

GETATION - Use scientific names of plants.				Sampling Point:090-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
	%Cover	Species?	Status	111011111111111111111111111111111111111
ee Stratum (Flot Size)	/000.2.	_ ороо.о	Oluluc	Total Number of Dominant
-				Species Across All Strata: 4 (B)
		-		Species Across Air Strata.
		-		Percent of Dominant Species
				·
				That Are OBL, FACW, or FAC: 75.0 (A/B)
				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		10(a) 00**	31	OBL species 30 x 1 = 30
· · · · · · · · · · · · · · · · · · ·				FACW species 45 x 2 = 90
				FAC species 0 x 3 = 0
				FACU species 20 x 4 = 80
				UPL species $0 \times 5 = 0$
				Column Totals: 95 (A) 200 (B)
				Prevalence Index = B/A = 2.11
				Prevalence muck - D/A
				Hydrophytic Vegetation Indicators:
	0	_ = Total Cove	er	1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Carex vulpinoidea / Fox sedge, Brown fox sedge	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
Phleum pratense / Common timothy, Cultivated timothy	20	Yes	FACU	4 - Morphological Adaptations (Provide supporting
Symphyotrichum novi-belgii / New belgium american-aster	20	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Phalaris arundinacea / Reed canarygrass, Reed canary gras	20	Yes	FACW	Problematic Hydrophytic vegetation (Explain)
Verbena hastata var. hastata / Swamp verbena	10	No		11-diseases of hydric coil and watland hydrology must
Juncus effusus var. pylaei / Common rush	10	No	·	¹Indicators of hydric soil and wetland hydrology must
Eupatorium perfoliatum / Common boneset	5	No	FACW	be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
		_	•	Definitions of vegetation office
	-		-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
		_		breast height (DBH), regardless of height.
		-		
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
pody Vine Stratum (Plot size: 30)	110	10(a) 00	31	
				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
		· · · · · · · · · · · · · · · · · ·		
	0	_ = Total Cove	er	Hydrophytic
				Vegetation
				Present? YesX No

SOIL Sampling Point: 090-1W

Depth	Matrix			k Features			ce of indicator	-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10yr 3/2	80	5yr 4/6	20	D	PL,M	loam			
12-18	10yr 6/1	80	7.5yr 5/6	20	C	М	Clay loam			
Type: C=Cond	centration, D=Depletion	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Mat	ix.
Hydric Soil In	dicators:						Indicators	s for Proble	ematic Hydric Soi	ls³:
Histosol (Polyvalue Belov	v Surface (St	3) (LRR R .	MLRA 149) (LRR K, L, MLR	
	pedon (A2)		Thin Dark Surfa						dox (A16) (LRR I	•
Black His			Loamy Mucky M			1400)			it or Peat (S3) (LF	
	n Sulfide (A4)		Loamy Gleyed N		(=:x:x 1x, L)				7) (LRR K, L)	, 🗀, /\)
	Layers (A5)		Depleted Matrix					-	Surface (S8) (LF	PK I)
	• • •	(11)							. , .	
	Below Dark Surface (A	X11)	Redox Dark Sur						ce (S9) (LRR K, L	
	rk Surface (A12)		X Depleted Dark S					-	Masses (F12) (L	
	ucky Mineral (S1)		Redox Depressi	ions (F8)					olain Soils (F19) (N	
	eyed Matrix (S4)								A6) (MLRA 144A	, 145, 149B)
Sandy Re								Parent Mate		
	Matrix (S6)								rk Surface (TF12)	
Dark Surf	face (S7) (LRR R, ML	RA 149B)					Othe	r (Explain in	Remarks)	
31	ovdronhytic vegetation	and wetlan	d hydrology must be p	resent. unles	s disturbed	or problem	atic.			
undicators of h	Tyuropriyuc vegetation		, ,, ,			· .				
Restrictive La	ayer (if observed):									
Restrictive La	ayer (if observed):								V V	
Restrictive La	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil P	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):						Hydric Soil F	resent?	Yes X	No

Project/Site:	19020 -	South Ripley	C	City/County:	Chautauqua	County	Sampling Date:	08/12/2020
Applicant/Owner:			nectGen LLC		· · · · · · · · · · · · · · · · · · ·	tate: New York		091-1U
Investigator(s):		JK, RM		Section, Township			wn of Ripley	
Landform (hillslope, terra	ace. etc):	Hillslope		ef (concave, conv	· •	Convex	Slope	(%): 5-8
Subregion (LRR or MLR	· · ·		Lat:	•		-79.700671		` '
Soil Map Unit Name:	,		am, 3 to 8 perce			NWI classification		
Are climatic / hydrologic			time of year? Y	es X	No (If no	— , explain in Remark	s.)	
Are Vegetation			•			rcumstances" prese	•	X No
		, or Hydrology	,			lain any answers in		
SUMMARY OF FIN						•	•	
Hydrophytic Vegetation		Yes	No X		Sampled Area			
Hydric Soil Present?	TIT TOSCITE:	Yes	No X		a Wetland?	Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X	_	optional Wetland Sit		NOX	_
- Welland Hydrology 11			_ NO _ X	11 yes, e	puonar vvenaria en	.c ib.		
Remarks: (Explain alto	ernative procedur	res here or in a sep	arate report.)					
HYDROLOGY								
	la dia ataua .							
Wetland Hydrology I			4 l. A			0		1)
Primary Indicators (mi		quired; check all tha	Water-Stained L	001/00 (PO)			ators (minimum of t	wo required)
Surface Water (A High Water Table	,	_		` ,			Cracks (B6)	
Saturation (A3)	; (A2)	_	Aquatic Fauna (Marl Deposits (Moss Trim L	atterns (B10)	
Water Marks (B1	1	_	Hydrogen Sulfic	•			Water Table (C2)	
Sediment Depos	,	_	-	spheres on Living	Poots (C3)	Crayfish Bu		
Drift Deposits (B:		_	Presence of Re		R0018 (C3)		/isible on Aerial Ima	agony (CO)
Algal Mat or Crus	•			duction in Tilled S	oile (C6)		Stressed Plants (D1	
Iron Deposits (B		_	Thin Muck Surfa		olis (CO)		Position (D2)	.)
	e on Aerial Image	 arv (R7)	Other (Explain i	` '		Shallow Aqu		
	ted Concave Surf	· · · · —	Otrici (Explair)	ii Remarks)			aphic Relief (D4)	
opuracry vegetar	ica concave can	doc (Bo)				FAC-Neutra		
Field Observations:								
Surface Water Preser	ıt? Yes	NoX):	_			
Water Table Present?	Yes	NoX	- ' '		_			
Saturation Present?	Yes	NoX	_ Depth (inches):	_ Wetland Hyd	drology Present?	Yes	No X
(includes capillary frin	.ge)							
Describe Recorded D	esta (etroam gaug	o monitoring well	porial photos, pro	vious inspections) if available:			
Describe Recorded D	ata (Stream gauge	e, monitoring well, a	denai priotos, pre	vious irispections), ii avaliable.			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:091-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That Are OBE, I AGW, OF I AG. (A)
Tree Stratum (Plot size:) 1.	/0C0VE1	opecies:	Status	Total Number of Dominant
			· · · · · · · · · · · · · · · · · · · 	
2.				Species Across All Strata: 3 (B)
3				
4		_		Percent of Dominant Species
5			- <u>- </u>	That Are OBL, FACW, or FAC: 0.0 (A/B)
6				Prevalence Index worksheet:
7		_		
	0	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3		_		FACU species 60 x 4 = 240
4				UPL species 30 x 5 = 150
5				Column Totals: 90 (A) 390 (B)
6.				Prevalence Index = B/A = 4.33
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Plantago lanceolata / Ribwort, English plantain	30	Yes	FACU	2 - Dominance Test is >50%
2. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Medicago sativa / Alfalfa	30	Yes	UPL	4 - Morphological Adaptations (Provide supporting
4. Ambrosia / Ragweed	10	No		Problematic Hydrophytic Vegetation¹ (Explain)
	_			
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
10.		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
We shall fine Observer (Diet siese 200	100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
B 1 (E 1 : 11 : 11 : 1 : 1				
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 091-1U

Depth	Matrix			x Features			ce of indicators	-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-16	10yr 3/3	98	10yr 5/6	2	С	М	Silt loam				
16-18	10yr 4/3	90	10yr 5/8	10	С	М	Silt loam				
								-			
		· 									
Type: C=Cond	centration, D=Depletic	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=Po	ore Lining, N	л=Matrix.	
Hydric Soil In	dicators:						Indicators	for Proble	ematic Hydi	ric Soils³:	
Histosol (Polyvalue Belov	v Surface (S	3) (LRR R,	MLRA 149E			(LRR K, L		9B)
	pedon (A2)		Thin Dark Surfa						dox (A16) (-
Black His			Loamy Mucky M			,			t or Peat (S		
	Sulfide (A4)		Loamy Gleyed I		, ,				7) (LRR K,		, , ,
	Layers (A5)		Depleted Matrix					-	Surface (S8	-	, L)
Depleted	Below Dark Surface (A11)	Redox Dark Sur	rface (F6)			Thin [Dark Surfac	e (S9) (LR	RK, L)	
	k Surface (A12)		Depleted Dark S						Masses (F1		K, L, R)
Sandy Mı	ucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	nont Floodp	olain Soils (F	19) (MLR	A 149B)
Sandy Gl	eyed Matrix (S4)						Mesic	Spodic (TA	A6) (MLRA	144A, 14	5, 149B)
Sandy Re	edox (S5)						Red F	Parent Mate	erial (F21)		
Stripped I	Matrix (S6)						Very S	Shallow Da	rk Surface (TF12)	
Dark Surf	ace (S7) (LRR R, MI	LRA 149B)					Other	(Explain in	Remarks)		
			d hydrology must bo n	resent, unles	s disturbed	or problem	atic.				
³Indicators of h	nydrophytic vegetation	and wetland	a flydrology fflust be p								
	nydrophytic vegetation ayer (if observed):	and wetland	a flydrology flidst be p								
		and wetland	a nydrology must be p								
Restrictive La	yer (if observed):	and wetland	a nydrology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiast be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil P	resent?	Yes	No	x
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil Pr	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil Pi	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil Pi	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiast be p				Hydric Soil Pi	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil P	resent?	Yes	No	x
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a frydrology ffiust be p				Hydric Soil P	resent?	Yes	No	<u>x</u>
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil P	resent?	Yes	No	<u>x</u>
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil Pr	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyarology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil Pi	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil Pi	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurorogy must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurorogy must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La	yer (if observed):	and wetland	a riyurorogy must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	a riyurorogy must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil P	resent?	Yes	No	X
Restrictive La Type: Depth (inc	yer (if observed):	and wetland	Trydrology must be p				Hydric Soil P	resent?	Yes	No	X

Project/Site:	19020 - 9	South Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	08/12/2020
Applicant/Owner:			ConnectGen LLC	,	, <u> </u>	•	ate: New York		091-1W
Investigator(s):		JK, RM		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra			Local r		ave, convex, n		Concave		e (%): 0-5
Subregion (LRR or MLR/				•	8839778	Long:	-79.700612		`
Soil Map Unit Name:			Erie silt loam				NWI classification		PEM
Are climatic / hydrologic		site typical for			K No	(If no	_ explain in Remark	-	
, ,			significant				cumstances" prese	,	X No
			naturally p				ain any answers in		
SUMMARY OF FIN		_				·	•	•	
							zis, important	reatures, etc.	
Hydrophytic Vegetation	n Present?		X No		Is the Samp				
Hydric Soil Present?			X No		within a We		Yes X		_
Wetland Hydrology Pro	esent?	Yes	X No	_	If yes, option	nal Wetland Sit	e ID:	091-1W PEM	
Remarks: (Explain alte	ernative procedure	s here or in a	senarate renort)						
rtomanto. (Explain alte	ornativo proceduro	0 11010 01 111 0	ooparato roporti,						
HYDROLOGY									
Wetland Hydrology II	ndicators:								
Primary Indicators (min	nimum of one requ	uired; check al	l that apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A	.1)		Water-Staine	•	B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)		Aquatic Faun	ıa (B13)			X Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim I	_ines (B16)	
Water Marks (B1))		Hydrogen Su	Ifide Odor ((C1)		Dry-Season	Water Table (C2)	
Sediment Deposit	ts (B2)		Oxidized Rhi	zospheres	on Living Roo	ots (C3)	Crayfish Bu		
Drift Deposits (B3	3)		Presence of I	Reduced In	on (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron F	Reduction in	n Tilled Soils ((C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5	5)		Thin Muck Su	urface (C7)			X Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Imager	y (B7)	Other (Explai	in in Remar	ks)		Shallow Aq	uitard (D3)	
Sparsely Vegetate	ed Concave Surfa	ce (B8)					Microtopogi	raphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
Field Observations									
Field Observations:	10 \/	NI-	V D						
Surface Water Present	_		X Depth (inch						
Water Table Present?	Yes _		X Depth (inch						
Saturation Present?	Yes _	No	X Depth (inch	es):		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fring	ge)								
Describe Recorded Da	ata (stream gauge	monitoring w	ell aerial photos r	orevious ins	spections) if a	available.			
Booon Bo Trooor and Bo	ata (otroam gaago	, mornioning w	on, donar priotos, p	51 O V 10 GO 11 10	, , , ,	avanabio.			
Remarks:									

Absolute Dominant Indicator Number of Dominant Species Status Total Number of Dominant Species Status Total Number of Dominant Species Status Total Number of Dominant Species Species Status Total Number of Dominant Species Speci	VEGETATION - Use scientific names of plants.				Sampling Point: 091-1W
Absolute					
Total Number of Dominant Species Species Across All Strata: 2 (B)					·
Species Across All Strata: 2 (B)		%Cover	Species?	Status	
Percent of Dominant Species					
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)					Species Across All Strata: (b)
That Are OBL, FACW, or FAC: 100.0 (A/B)	· · · · · · · · · · · · · · · · · · ·				D. and of Deminstrat Consider
Prevalence Index worksheet: Total % Cover of:	5.				
Total Cover Total Scover of:					Provolence Index workshoot
Column C	7				
FACW species 50	0 " (2) 0 (D) (D) (E)	U	_ = Total Cov	er	
2.					
FACU species 0					
UPL species 0 x 5 = 0 Column Totals: 80 (A) 130 (B)	2				
4. Column Totals: 80 (A) 130 (B) Frevalence Index = B/A = 1.63 7.	3				
Prevalence Index = B/A = 1.63	4				
Tree - Woody Vine Stratum (Plot size:					、 , 、 ,
Herb Stratum (Plot size: _ 5 _)					Prevalence Index = B/A = 1.03
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01 3 - Mentha / Mint	7				Hydrophytic Vegetation Indicators:
Pert Stratum (Plot size: 5 1. Onoclea sensibilis / Sensitive fern 50		0	_ = Total Cov	er	
1. Onoclea sensibilis / Sensitive fern 2. Acorus americanus / Several-vein sweetflag 3. Mentha / Mint 4. 5. 6. 7. 8. 9. 10. 10. 10. 10. 11. 12. 12. 13. Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum 4. 10. 11. 12. 13. Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation ** 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2 Indicators of hydric soil and wetland hydrology indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology indicators of hydrology indicators of hydrology and hydrology indicators of hy	Herb Stratum (Plot size: 5				
2. Acorus americanus / Severai-vein sweeting 3. Mentha / Mint 4	Onoclea sensibilis / Sensitive fern	50	Yes	FACW	
A	2. Acorus americanus / Several-vein sweetflag	30	Yes	OBL	
5	3. Mentha / Mint	10	No		
5	4.		_		Problematic Hydrophytic Vegetation: (Explain)
6	_		_		
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	^		_		
B					be present, unless disturbed or problematic.
9.	0				2 7 111 21 21 21 21
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	0				Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop					
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:	10.				
Woody Vine Stratum (Plot size:30) 1	11.				
Woody Vine Stratum (Plot size: 30) 1	12.	90	= Total Cov	 /er	
1	Woody Vine Stratum (Plot size: 30)	-	_		
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	1				
3. height. 1. O = Total Cover Hydrophytic Vegetation	2				
4. O = Total Cover Hydrophytic Vegetation	3				
0 = Total Cover Hydrophytic Vegetation	о. Д			_	Ticignt.
Vegetation	· · · · · · · · · · · · · · · · · · ·		= Total Cov		Hydrophytic
			_ 10101 01.	Ci	
100 <u>7</u> 10					
					Fieseit: 165 A NO
Remarks: (Explain alternative procedures here or in a separate report.)	,	,			

SOIL Sampling Point: 091-1W

Depth	Matrix		eeded to document th Redox	x Features				•	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-8	10yr 3/2	95	5yr 4/6	5	С	М	Loam		
8-18	10yr 4/2	70	10yr 5/8	30	C	М	Rocky sand los		
			· -						
				- 					
		· 							
IT O. O		- DM D-d					21	tions DL Done L	taban NA NASARA
Type: C=Con	centration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.			tion: PL=Pore L	ining, M=Matrix.
Hydric Soil In	ndicators:						Indicators	for Problemat	tic Hydric Soils³:
Histosol ((A1)		Polyvalue Belov	v Surface (S	B) (LRR R,	MLRA 14	9B) 2 cm	Muck (A10) (LF	RR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	(149B)	Coas	t Prairie Redox	(A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm	Mucky Peat or I	Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S7) (I	LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyv	alue Below Sur	face (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	X Redox Dark Sur				Thin I	Dark Surface (S	9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					-	sses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ions (F8)					Soils (F19) (MLRA 149B)
	leyed Matrix (S4)								(MLRA 144A, 145, 149B)
X Sandy Re								Parent Material	
	Matrix (S6)							Shallow Dark Si	
Dark Surf	face (S7) (LRR R, ML	-RA 149B)					Other	(Explain in Rer	marks)
3Indicators of I	hydronhytic vegetation	and wetlan	d hydrology must be n	recent unles	e dieturhad	or proble	matic		
³Indicators of I	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble	natic.		
	hydrophytic vegetation ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble	matic.		
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble			
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble	matic. Hydric Soil P	resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	⁄es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent?	/es <u>X</u> No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	s disturbed	or proble		resent? Y	/es <u>X</u> No

Project/Site:	19020 -	- South Ripley	Cit	ty/County:	Chautaugua	County	Sampling Date:	08/11/2020
Applicant/Owner:			nectGen LLC			tate: New York		092-1U
Investigator(s):		RM JK		ction, Township,			vn of Ripley	
Landform (hillslope, teri	race. etc):	Hill slope		(concave, conve		Convex		e (%): Gentle
Subregion (LRR or MLF	· · · · · ·		Lat:	42.19476209	• •	-79.698093		` '
Soil Map Unit Name:	, 		nautaugua silt loam			NWI classification		
Are climatic / hydrologic	c conditions on the				No (If no.	_ , explain in Remark		
Are Vegetation			•			rcumstances" prese		X No
		, or Hydrology				lain any answers in		
SUMMARY OF FIN	_					•	•	
Hydrophytic Vegetati		Yes	No X		ampled Area	, <u> </u>		
Hydric Soil Present?		Yes			Wetland?	Yes	No X	
Wetland Hydrology P		Yes	No X	-	ptional Wetland Sit			_
Trouding Tryanology T				, , ,				
Remarks: (Explain al	ternative procedur	res here or in a sep	arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators							
Primary Indicators (m		quired: check all the	t apply)			Secondary Indica	ators (minimum of t	two required)
Surface Water (A		quired, effect all the	Water-Stained Le	aves (R9)			Cracks (B6)	wo required)
High Water Tabl	•		Aquatic Fauna (B	` ,			atterns (B10)	
Saturation (A3)	` ,	_	Marl Deposits (B	•		Moss Trim L		
Water Marks (B		_	Hydrogen Sulfide	•			Water Table (C2)	
Sediment Depos	,	_	Oxidized Rhizosp		Roots (C3)	Crayfish Bu		
Drift Deposits (E		_	Presence of Red	-	10013 (00)		/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	•	_	Recent Iron Redu		oils (C6)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Surface		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Position (D2)	',
	ole on Aerial Image	erv (B7)	Other (Explain in	, ,		Shallow Aqu		
	ated Concave Surf			,			aphic Relief (D4)	
		,				FAC-Neutra		
						_ 		
Field Observations:								
Surface Water Prese		No X			-			
Water Table Present		NoX	_ ' ' '		-		.,	
Saturation Present?	Yes	NoX	Depth (inches):		Wetland Hyd	drology Present?	Yes	No X
(includes capillary frin	nge)							
Describe Recorded D	Data (stream gaug	e. monitoring well.	aerial photos, previ	ous inspections)	. if available:			
		-,	, р		,			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point:092-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(',
1. Fagus grandifolia / American beech	30	Yes	FACU	Total Number of Dominant
Acer saccharum / Sugar maple	10	No	FACU	Species Across All Strata: 4 (B)
Betula alleghaniensis / Yellow birch	8	No	FAC	Openies / toross / tir otrata.
Tsuga canadensis / Eastern hemlock	<u></u>	No	FACU	Percent of Dominant Species
Prunus serotina / Black cherry	<u>5</u>	No No	FACU	That Are OBL, FACW, or FAC: 0.0 (A/B)
			TACO	That Are OBL, FACW, OF FAC. (A/B)
		_		Prevalence Index worksheet:
7	58	= Total Cov		Total % Cover of: Multiply by:
Continue/Chauth Chapture / Plot size 45		_ = 10tal Cov	eı	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15)	05	V	FACUL	FACW species 0 x 2 = 0
Fagus grandifolia / American beech	25	Yes	FACU	FAC species 8 x 3 = 24
2	_			FACU species 95 x 4 = 380
3	_			UPL species $0 \times 5 = 0$
4				· — — —
5	_			``
6				Prevalence Index = B/A = 3.92
7				Hydrophytic Vegetation Indicators:
	25	_ = Total Cov	er	Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5				2 - Dominance Test is >50%
Maianthemum canadense / False lily-of-the-valley	10	Yes	FACU	
2. Mitchella repens / Partridge-berry	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
٥				Deminitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		-	-	breast height (DBH), regardless of height.
12.	_			
· - ·	20	= Total Cov	er	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)		0.0.001	0.	
4				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	_			Woody vines - All woody vines greater than 3.28 ft in
3.	-	-		neight.
4		- Total Cau		Hydrophytic
	0	_ = Total Cov	er	
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report)			
remarks. (Explain alternative procedures here of in a separate	o report.)			

SOIL Sampling Point: 092-1U

Profile Descr Depth	Matrix	-		k Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	(S
0-3	10YR 2/1	100					Loam organic			
3-5	10YR 5/3	100	_				Loam			
5-14	10YR 5/8	100	1				Loam			
14-18	10YR 5/4	100					Loam	-		
	10111071						Loani			
		<u> </u>								
		_		-						
								-		
	-									
	-									
¹Type: C=Con	centration, D=Depletion	on, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M	1=Matrix.
Hydric Soil Ir	adicatore:						Indicators	for Proble	ematic Hydr	ic Soile ³ :
			Dobavoluo Bolov	v Curfoco (C	0) (I DD D I	MI DA 440			-	
Histosol	•		Polyvalue Belov	•	,		· —	-		, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa			(149B)				LRR K, L, R)
Black His			Loamy Mucky M		(LKK K, L)			-	-	3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N					,	7) (LRR K,	•
	Layers (A5)	(444)	Depleted Matrix	,					-	3) (LRR K, L)
	Below Dark Surface ((ATT)	Redox Dark Sur						e (S9) (LRI	
	rk Surface (A12)		Depleted Dark S					ū	•	2) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ions (F8)						19) (MLRA 149B)
	leyed Matrix (S4)									144A, 145, 149B)
	edox (S5)							Parent Mate		TE40)
	Matrix (S6)								rk Surface (1	IF12)
Dark Sur	face (S7) (LRR R, M	LRA 149B)					Other	(Explain ir	Remarks)	
				resent unles	s disturbed	or probler	aatia			
³ Indicators of	hydrophytic vegetatior	n and wetland	hydrology must be p	rooont, amo	o distarbed	or bropier	iauc.			
		n and wetland	hydrology must be p		- disturbed	or probler	nauc.			
Restrictive La	ayer (if observed):				os disturbed	or probler	nauc.			
Restrictive La	ayer (if observed):			Toodhi, amos		oi problei		resent?	Yes	No X
Restrictive La	ayer (if observed):			recent, amos	o distarbed	or probler	Hydric Soil Pi	resent?	Yes	No <u>X</u>
Restrictive La Type: Depth (inc	ayer (if observed):			iosoni, umos	3 distance	or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):			iosoni, umoc	S disturbed	ог ргошег		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):			osoni, umos	is distalled	or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	NoX
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La Type: Depth (inc	ayer (if observed):					or probler		resent?	Yes	No X
Restrictive La	ayer (if observed):					or probler		resent?	Yes	No X

Project/Site:	1902	0 - South Ripley		City/County:	: (Chautaugua C	County	Sampling Date:	08/11/2020
Applicant/Owner:			ConnectGen LLC	,,-			ate: New York		092-1W
Investigator(s):		JK, RM		Section, Toy	wnship, Rang			wn of Ripley	
Landform (hillslope, ter	race etc).	,	persion Local r	elief (concave		-	Concave	. ,	e (%): 0-5
Subregion (LRR or MLI		LRR R MLRA 139		•	176191	-	-79.698134	·	` '
Soil Map Unit Name:			Chautauqua silt I				NWI classification		PFO
Are climatic / hydrologic	c conditions on t	the site typical for			No	(If no.	explain in Remark		
Are Vegetation				y disturbed?	_		cumstances" prese	•	X No
			naturally p				ain any answers in		
SUMMARY OF FI					-	-	-	•	
Hydrophytic Vegetati					s the Sample				
Hydric Soil Present?			X No X No		vithin a Wetla		Yes X	No	
Wetland Hydrology F			X No	_			e ID:		_
Welland Trydrology 1			<u> </u>	_ "	yes, optiona	T VVCIIdila Oile		002 100110	
Remarks: (Explain al Flags ir	Iternative proced n field are labele		separate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (n		required: check a	Il that apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (X Water-Staine	d Leaves (B9)			l Cracks (B6)	y
High Water Tab	. ,		Aquatic Faun	` '	,			atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim I		
Water Marks (B	1)		X Hydrogen Su	Ifide Odor (C1	1)		Dry-Season	Water Table (C2))
Sediment Depo	sits (B2)		Oxidized Rhiz	zospheres on	Living Roots	(C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (E	33)		Presence of I	Reduced Iron	(C4)		Saturation \	/isible on Aerial In	nagery (C9)
Algal Mat or Cru	ust (B4)		Recent Iron F	Reduction in T	Filled Soils (Co	6)	Stunted or S	Stressed Plants (D	01)
Iron Deposits (E	35)		Thin Muck Su	urface (C7)			Geomorphic	Position (D2)	
Inundation Visib	ole on Aerial Ima	ıgery (B7)	Other (Explai	n in Remarks	s)		Shallow Aq	uitard (D3)	
X Sparsely Vegeta	ated Concave Si	urface (B8)						aphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
Field Observations	•								
Surface Water Prese		es No	X Depth (inch	es):					
Water Table Present		es No		-					
Saturation Present?		es No	X Depth (inch	· —		Wetland Hydi	rology Present?	Yes X	No
(includes capillary fri		· · · · ·					3,		
. ,									
Describe Recorded [Data (stream gai	uge, monitoring w	ell, aerial photos, p	orevious inspe	ections), if ava	ailable:			
Remarks:									
rtomanto.									

VEGETATION - Use scientific names of plants.				Sampling Point:092-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,
1. Tsuga canadensis / Eastern hemlock	40	Yes	FACU	Total Number of Dominant
2. Acer rubrum / Red maple	20	Yes	FAC	Species Across All Strata: 6 (B)
3. Betula alleghaniensis / Yellow birch	10	No	FAC	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 83.3 (A/B)
6.				
7.				Prevalence Index worksheet:
	70	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)		_		OBL species 0 x 1 = 0
1. Lindera benzoin / Northern spicebush	20	Yes	FACW	FACW species110 x 2 =220
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FAC species 35 x 3 = 105
3. Betula alleghaniensis / Yellow birch	5	No	FAC	FACU species 40 x 4 = 160
4.				UPL species 0 x 5 = 0
5.			- —	Column Totals: 185 (A) 485 (B)
6.			- ——	Prevalence Index = B/A = 2.62
7			- ——	
1.	35	= Total Cove	 	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ 10101 00.		1 - Rapid Test for Hydrophytic Vegetation
1. Osmunda cinnamomea / Cinnamon fern	50	Yes	FACW	X 2 - Dominance Test is >50%
Cosmunda cirriamoniea / Cirriamoniem Impatiens capensis / Spotted jewelweed	20	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
Onoclea sensibilis / Sensitive fern		No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4			- ——	
5.			- ——	¹ Indicators of hydric soil and wetland hydrology must
6.			- ——	be present, unless disturbed or problematic.
7.			- ——	·
8.			- ——	Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12		<u> </u>		Sapling/shrub - Woody plants less than 3 in. DBH and
	80	_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	_ = Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 092-1W Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) Type¹ Loc² Texture Remarks 0-22 10yr 2/1 100 Mucky pear loa

¹Type: C=Concentration, D=Depletion, RM=Reduce	d Matrix, MS=Masked Sand Grains.	²Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	Polyvalue Below Surface (S8) (LRR R,MLRA 1498) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes X No

Project/Site:	19020 - South	n Ripley	City/County:	Chautauqua (County	Sampling Date:	08/11/2020
Applicant/Owner:				· · · · · · · · · · · · · · · · · · ·	ate: New York		093-1U
Investigator(s):	RM 、		Section, Township			vn of Ripley	
Landform (hillslope, terrace			ocal relief (concave, con		Convex	. ,	(%): Moderate
Subregion (LRR or MLRA)			at: 42.1864168		-79.696010		` '
Soil Map Unit Name:				Long	NWI classification	_	10.15.00
Are climatic / hydrologic co				No (If no,	_		
, ,		,,	icantly disturbed?		cumstances" prese		(No
		drologysignii rdrologynatur			ain any answers in		<u> </u>
					-	•	
SUMMARY OF FIND			Sampling point lo	cations, transec	ts, important	ieatures, etc.	
Hydrophytic Vegetation		Yes No		Sampled Area			
Hydric Soil Present?		Yes No	X within	a Wetland?	Yes	NoX	_
Wetland Hydrology Pres	sent?	Yes No	X If yes,	optional Wetland Site	e ID:		
Remarks: (Explain altern	native procedures he	re or in a senarate ren	ort)				
i i i i i i i i i i i i i i i i i i i	native procedures ne	ie or iii a separate rept	л.,				
HYDROLOGY							
Wetland Hydrology Inc	dicators:						
Primary Indicators (mini		· check all that apply)			Secondary Indica	ators (minimum of tw	vo required)
Surface Water (A1)	•		tained Leaves (B9)			Cracks (B6)	
High Water Table (A	•		Fauna (B13)			atterns (B10)	
Saturation (A3)	, u_)		posits (B15)		Moss Trim L		
Water Marks (B1)			en Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(B2)		Rhizospheres on Living	n Poote (C3)	Crayfish Bu		
	` '			j Roois (C3)		isible on Aerial Ima	ngon, (CO)
Drift Deposits (B3)			e of Reduced Iron (C4)	Seile (CC)			
Algal Mat or Crust ((B4)		ron Reduction in Tilled S	solis (Co)		Stressed Plants (D1)
		I nin iviti	ck Surface (C7)		Geomorphic	Position (D2)	
Iron Deposits (B5)	A : 11 (D-						
Inundation Visible of	on Aerial Imagery (B7	7) Other (E	explain in Remarks)		Shallow Aqu	uitard (D3)	
Inundation Visible of	on Aerial Imagery (B7 d Concave Surface (E	7) Other (E	explain in Remarks)		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible of		7) Other (E	xplain in Remarks)		Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible of Sparsely Vegetated		7) Other (E	explain in Remarks)		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible of Sparsely Vegetated Field Observations:	d Concave Surface (E	7) Other (E			Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present?	d Concave Surface (E	7) Other (E 38) NoX Depth	(inches):	_	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	Yes	7) Other (E No X Depth No X Depth	(inches):	— Wotland Hyd	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No. Y
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes Yes Yes	7) Other (E No X Depth No X Depth	(inches):	— — Wetland Hyd	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	Yes Yes Yes	7) Other (E No X Depth No X Depth	(inches):	— — Wetland Hyd	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present?	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	YesYes	7) Other (E	(inches): (inches):		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 093-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	1100111001111011110111101111011110111101111
1. Fagus grandifolia / American beech	60	Yes	FACU	Total Number of Dominant
Prunus serotina / Black cherry		Yes	FACU	Species Across All Strata: 5 (B)
Trunus serouna / Black Clerry Tsuga canadensis / Eastern hemlock	10	No	FACU	Species Across Air Strata (b)
	10			Description of Description
4. Betula alleghaniensis / Yellow birch	10	No	FAC	Percent of Dominant Species
5.			· ———	That Are OBL, FACW, or FAC: 20.0 (A/B)
6.			· ———	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	100	_ = Total Cove	er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0
Fagus grandifolia / American beech	40	Yes	FACU	FACV species 0
2				· — — — — — — — — — — — — — — — — — — —
3				FACU species 140 x 4 = 560
4		_		UPL species 0 x 5 = 0
5			·	Column Totals: 155 (A) 605 (B)
6				Prevalence Index = B/A = 3.9
7				Hisduanh, dia Vanatatian Indiantana
	40	= Total Cove	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Fagus grandifolia / American beech	10	Yes	FACU	2 - Dominance Test is >50%
2. Acer rubrum / Red maple	5	Yes	FAC	3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations (Provide supporting
4				Problematic Hydrophytic Vegetation¹ (Explain)
			· 	
6			· ———	¹ Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.			· 	Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	15	_ = Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cove	er	Hydrophytic
		_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	te report.)			

 SOIL
 Sampling Point:
 093-1U

Depth	ription: (Describe to the Matrix	ne aeptn nee		re indicator x Features	or confirm the	e absend	e of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-2	10YR 3/2	100					Loam	
2-8	10YR 3/6	100					Loam	
	10111070						200	
		· 						
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	-	· 						
		· —— -						
		· -						
Type: C=Cor	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Location:	PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (St	R) (I PP P MI	P Δ 1/0 P		k (A10) (LRR K, L, MLRA 149B)
	` '	-		-			· —	
	ipedon (A2)	-	Thin Dark Surfa			1 96)		airie Redox (A16) (LRR K, L, R)
Black Hi		-	Loamy Mucky N		LKK K, L)			ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed I					ace (S7) (LRR K, L)
	Layers (A5)	<u>-</u>	Depleted Matrix					Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11) _	Redox Dark Sui					Surface (S9) (LRR K, L)
	rk Surface (A12)	-	Depleted Dark S					ganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)	-	Redox Depress	ions (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Pare	nt Material (F21)
Stripped	Matrix (S6)						Very Shal	low Dark Surface (TF12)
Dark Su	face (S7) (LRR R, ML	RA 149B)					Other (Ex	plain in Remarks)
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed or	problema	atic.	
Restrictive L	ayer (if observed):							
Type:	Rock							
Depth (in	ches):	8					Hydric Soil Prese	ent? Yes NoX
Remarks:	Rock and root refusal n	nultiple locatio	nns					
'	took and root relacal n	nample locatio	110					

Project/Site: 19020 - South Ripley City/County: Chautauqua County Sampling Date: 094/11/2020
Investigator(s):
Landform (hillslope, terrace, etc): Flood plain
Subregion (LRR or MLRA): LRR R MLRA 139 Lat: 42.18635043 Long: -79.69611836 Datum: NAD 83 Soil Map Unit Name: Chadakoin silt loam, 15 to 25 percent slopes NWI classification: PEM Are climatic / hydrologic conditions on the sile typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are load (if needed, explain any answers in Remarks.) Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No
Soil Map Unit Name: Chadakoin silt loam, 15 to 25 percent slopes
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Settleman Size No Settle
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes _X No No
Are Vegetation soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland? Yes X No Hydrology Present? Yes X No If yes, optional Wetland Site ID: 093-1W PEM Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) X Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Soil Present? Yes X No Wetland Hydrology Present? Wetland Hydrology Present? Yes X No If yes, optional Wetland? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
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Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Within a Wetland? Yes X No 093-1W PEM Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Moss Trim Lines (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) If yes, optional Wetland Site ID: 093-1W PEM 094-1W PEM 094-1W PEM 095-1W PEM 095
Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Moss Trim Lines (B16) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
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Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
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Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Thin Muck Surface (C7) X Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4)
X FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)
(includes capillary fillinge)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

EGETATION - Use scientific names of plants.				Sampling Point:093-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	•
Trac Chrotum (Plot size: 20				That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	<u>Status</u>	
1				Total Number of Dominant
2				Species Across All Strata: 3 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 66.7 (A/B)
				That rid ODE, Friend, C. Fried
•				Prevalence Index worksheet:
·		Cor		Total % Cover of: Multiply by:
	0	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:15)				
•				FACW species 60 x 2 = 120
				FAC species 10 x 3 = 30
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 70 (A) 150 (B)
·				
·				Prevalence Index = B/A = 2.14
			_	11 1 Louis Monatation Indicators
	0	= Total Cov	/er	Hydrophytic Vegetation Indicators:
lerb Stratum (Plot size: 5)			0.	X 1 - Rapid Test for Hydrophytic Vegetation
	30	Vac		X 2 - Dominance Test is >50%
. Carex / Sedge	30	Yes Yes		X 3 - Prevalence Index ≤3.0¹
. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	4 - Morphological Adaptations (Provide supporting
. Onoclea sensibilis / Sensitive fern	20	Yes	FACW	
Geum laciniatum / Rough avens	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
i. Rumex crispus / Curly dock	10	No	FAC	
•				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
3				Definitions of Vegetation Strata
)				
10.				Tree Mondy plants 2 in (7.6 cm) or more in diameter at
14				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	100	_ = Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
Voody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
<u> </u>				size, and woody plants less than 3.28 ft tall.
·				
·			_	Woody vines - All woody vines greater than 3.28 ft in
·				height.
·				
	0	_ = Total Cov	/er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separa	ate report.)			
Committee (Explain anomatic processes)	ю торо,			

SOIL Sampling Point: 093-1W

(inchoc)	Matrix		Redox	Features			ce of indicators.			
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture		Remarks	
0-10	5y 4/1	90	2.5y 5/6	10	C	M	Sandy loam			
				· ——						
				·						
				·						
 .				·						
ype: C=Conc	entration, D=Depletion	, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ains.		²Locati	on: PL=Pore	e Lining, M=Ma	trix.
dric Soil Inc	licators:						Indicators f	or Problem	natic Hydric Sc	ile³·
Histosol (A			Polyvalue Below	Surface (S8) (IRRRI	/II RΔ 149			LRR K, L, MLF	
	pedon (A2)		Thin Dark Surface	•			· —		ox (A16) (LRR	-
Black Hist			Loamy Mucky M			1430)			or Peat (S3) (L l	
_	Sulfide (A4)		Loamy Gleyed N	. , .	Littit it, Lj				(LRR K, L)	, ב, וגי
_	_ayers (A5)		X Depleted Matrix						urface (S8) (L	RR K. L)
_	Below Dark Surface (A	.11)	Redox Dark Sur						(S9) (LRR K,	
_	s Surface (A12)	,	Depleted Dark S	` ,					lasses (F12) (
	cky Mineral (S1)		Redox Depressi					-	in Soils (F19) (
	eyed Matrix (S4)			,				-) (MLRA 144)	-
Sandy Re							Red Pa	arent Materi	al (F21)	
Stripped N							Very SI	hallow Dark	Surface (TF12)
Dark Surf	ace (S7) (LRR R, MLI	RA 149B)					Other (Explain in F	Remarks)	
ndicators of h	ydrophytic vegetation a	and wetland	hydrology must be pr	esent, unles	s disturbed	or problem	atic.			
	yer (if observed):									
Type:	Rock								., .,	
Depth (inch	nes):1	0					Hydric Soil Pre	esent?	Yes X	No
200411 (11101										
emarks:										
emarks:	ock refusal 10 -multiple	locations								
marks:	ock refusal 10 -multiple	FIOCALIONS								
emarks:	ock refusal 10 -multiple	FIOCATIONS								
emarks:	ock refusal 10 -multiple	SIOCALIONS								
emarks:	ock refusal 10 -multiple	e locations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	o locations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
marks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
marks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sidealions								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sideations								
emarks:	ock refusal 10 -multiple	Sidealions								
emarks:	ock refusal 10 -multiple	Sidealions								
emarks:	ock refusal 10 -multiple	o locations								

Project/Site:
Landform (hillslope, terrace, etc): Berm
Subregion (LRR or MLRA): LRR RMLRA 139 Lat: 42.18972716 Long: -79.69719226 Datum: NAD 83 Soil Map Unit Name: Erie sill toam (Novi classification: Aver elimate / hydrologic conditions on the site typical for this time of year? Yes X No (If no. explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology anaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland Site ID: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Mart Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Saturation (Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inno Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inno Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Soil Map Unit Name:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation Soil or hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Mart Deposits (B15) Moss Tim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence Reduced fron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Are Vegetation, Soil, or Hydrology
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X within a Wetland? Yes No X within a Wetland? Yes No X within a Wetland Hydrology Present? Yes No X within a Wetland? Yes No X bepth (inches):
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Wetland Hydrology Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY
Hydrophytic Vegetation Present? Yes No X Within a Wetland? Yes No X Depth (inches):
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) Mari Deposits (B15) Saturation (A3) Mari Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Sediment Deposits (B2) Surface Water (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Within a Wetland? Yes No X Within a Wetland? If yes, optional Wetland? If yes, optional Wetland? Yes No X Within a Wetland? If yes, optional Wetland? If yes, optional Wetland? If yes, optional Wetland? Yes No X Water Mathana (Ste ID) Secondary Indicators (minimum of two required) Secondary In
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) Mari Deposits (B15) Saturation (A3) Mari Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Sediment Deposits (B2) Surface Water (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Within a Wetland? Yes No X Within a Wetland? If yes, optional Wetland? If yes, optional Wetland? Yes No X Within a Wetland? If yes, optional Wetland? If yes, optional Wetland? If yes, optional Wetland? Yes No X Water Mathana (Ste ID) Secondary Indicators (minimum of two required) Secondary In
Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water In a separate report.) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Wetland Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Depth (inches):
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Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
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High Water Table (A2) Saturation (A3) Marl Deposits (B15) Marl Deposits (B15) Marl Deposits (B15) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Ves No X Depth (inches): Water Table (D1) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Water Marks (B1)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Surface Mater Or Crust (B2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Drift Deposits (B3)
Algal Mat or Crust (B4)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)
Sparsely Vegetated Concave Surface (B8)
Field Observations: Surface Water Present? Yes NoX Depth (inches): Water Table Present? Yes NoX Depth (inches):
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: 094/095-1U **Dominance Test worksheet: Number of Dominant Species** Absolute Dominant Indicator That Are OBL, FACW, or FAC: 3 (A) Tree Stratum (Plot size: %Cover Species? Status FACU 1. Tsuga canadensis / Eastern hemlock **Total Number of Dominant** 2. Acer rubrum / Red maple 15 Yes FAC Species Across All Strata: 6 ____ (B) 3. Fagus grandifolia / American beech Yes FACU Percent of Dominant Species That Are OBL, FACW, or FAC: 6. Prevalence Index worksheet: Total % Cover of: Multiply by: 45 = Total Cover OBL species 0 x 1 = Sapling/Shrub Stratum (Plot size: 0 ___ x 2 = _ FACW species 1. Fagus grandifolia / American beech 25 x 3 = FAC species FACU species 50 x 4 = UPL species 0 x 5 = (A) _ Column Totals: 75 Prevalence Index = B/A = 3.67 Hydrophytic Vegetation Indicators: 20 = Total Cover ___ 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5 2 - Dominance Test is >50% 1. Betula alleghaniensis / Yellow birch FAC 3 - Prevalence Index ≤3.01 2. Acer rubrum / Red maple FAC 4 - Morphological Adaptations (Provide supporting ____ Problematic Hydrophytic Vegetation¹ (Explain) 4. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. **Definitions of Vegetation Strata** 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at 11. breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and 10 = Total Cover greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in 0 = Total Cover Hydrophytic Vegetation Present? Yes ____ No __X__ Remarks: (Explain alternative procedures here or in a separate report.)

SOIL Sampling Point: 094/095-1U

Profile Desc	ription: (Describe to th	e depth nee		he indicator x Features	or confirm	the absen	ce of indicators	s.)			
•	Matrix	0/			T 1	12	Tt		Daman		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc²	Texture		Remark	(S	
0-2	2.5YR 2.5/3	100			· ——		Loam				
	·				· —— ·						
					. .						
					· .						
¹Type: C=Coı	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	rains.		²Locat	tion: PL=P	ore Lining, M	l=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydr	ic Soils³:	
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149E	3) 2 cm l	Muck (A10) (LRR K, L,	MLRA 149)B)
	pipedon (A2)		Thin Dark Surfa	•			-		edox (A16) (•
Black Hi			Loamy Mucky N			,			at or Peat (S3		-
	n Sulfide (A4)		Loamy Gleyed		(=:::::, =)			-	7) (LRR K, l		_,,
	d Layers (A5)		Depleted Matrix				_		V Surface (S8		1.
	d Below Dark Surface (A	.11\	Redox Dark Su						ce (S9) (LRI		L)
	•	(11)	Depleted Dark								, I D)
	ark Surface (A12)							-	Masses (F1		
	lucky Mineral (S1)		Redox Depress	sions (F8)					plain Soils (F		
	Sleyed Matrix (S4)								A6) (MLRA	144A, 145,	, 149B)
	ledox (S5)								erial (F21)		
	Matrix (S6)								ark Surface (1	ΓF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other	(Explain ii	n Remarks)		
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	oresent, unle	ss disturbed	or problem	atic.				
	.ayer (if observed):		, 0, 1	·		·					
Type:	ayer (ii observeu).										
Depth (in	chee).						Hydric Soil Pr	rocont?	Yes	No	Χ
Deptii (iii							nyunc 3011 Fi	esenti	165	NO _	
Remarks:											
	Root refusal multiple loc	ations									

Project/Site:	19020 - S	outh Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	08/12/2020
Applicant/Owner:			ectGen LLC	. ,	, <u> </u>		ate: New York		094-1W
Investigator(s):	F	RM JK		Section,	Township, Rai	-		wn of Ripley	
Landform (hillslope, terrac	ce, etc):	Flat	Local re		ave, convex, r		Concave		e (%): Gentle
Subregion (LRR or MLRA		R MLRA 139	 Lat:	-	8948239	Long:	-79.697445	94 Datu	ım: NAD 83
Soil Map Unit Name:			Erie silt loam				NWI classification	on:	PEM
Are climatic / hydrologic c	onditions on the s	ite typical for this t	ime of year?	Yes >	K No	(If no,	_ explain in Remark	(s.)	
Are Vegetation X	, Soil X , o	r Hydrology X	significantl	y disturbed	1?		cumstances" prese		X No
		r Hydrology				If needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINE	DINGS - Attac	h site map sh	 owing sam	pling po	oint location	ons, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes X	No		Is the Sam			•	
Hydric Soil Present?	r rooone.	Yes X	No	_	within a We		Yes X	No	
Wetland Hydrology Pre	sent?	Yes X	No	_		nal Wetland Site		PEM	_
				_	, 550, 554.5				
Remarks: (Explain alter Minor logg		s here or in a sepa ading and tractor r							
HYDROLOGY									
Wetland Hydrology In	dicators:								
Primary Indicators (min		ired; check all that	apply)				Secondary Indic	ators (minimum of	two required)
Surface Water (A1)		Water-Staine	d Leaves (B9)			l Cracks (B6)	
High Water Table ((A2)		Aquatic Faun	a (B13)			Drainage P	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposits	s (B15)			Moss Trim I	Lines (B16)	
Water Marks (B1)			Hydrogen Su	lfide Odor	(C1)		Dry-Seasor	Water Table (C2))
Sediment Deposits	s (B2)	<u>X</u>	Oxidized Rhiz	zospheres	on Living Roo	ots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	1		Presence of F	Reduced In	on (C4)		Saturation \	/isible on Aerial Ir	nagery (C9)
Algal Mat or Crust	(B4)	_	Recent Iron F	Reduction in	n Tilled Soils	(C6)	Stunted or \$	Stressed Plants (D)1)
Iron Deposits (B5)			Thin Muck Su	, ,				c Position (D2)	
Inundation Visible		· · · —	Other (Explai	n in Remai	rks)		Shallow Aq	` '	
Sparsely Vegetate	d Concave Surfac	:e (В8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present	? Yes	No X	Depth (inch	es):					
Water Table Present?	Yes	No X	Depth (inch						
Saturation Present?	Yes	No X	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	e)			· ·					
Describe Recorded Dat	a (stream gauge,	monitoring well, a	erial photos, p	revious ins	spections), if a	available:			
Remarks:									

	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A	A)
Tree Stratum (Plot size:30) 1	%Cover	Species?	Status	Total Number of Dominant Species Across All Strata:3(E	3)
3				Percent of Dominant Species That Are OBL, FACW, or FAC:66.7(A	A/B)
6. 7.		= Total Cov		Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15) 1. Fagus grandifolia / American beech	10	Yes	FACU	OBL species 85 x 1 = 85 FACW species 10 x 2 = 20	
2				FAC species 0 x 3 = 0 FACU species 10 x 4 = 40	
4 5		_		UPL species 0 x 5 = 0 Column Totals: 105 (A) 145 Prevalence Index = B/A = 1.38	(B)
7.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size:5 1. Carex comosa / Bristly sedge, Bristly sedge	50	Yes	OBL	X 2 - Dominance Test is >50%	
2. Juncus effusus / Common bog rush, Soft or lamp rush	20	Yes	OBL	X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting	
3. Leersia oryzoides / Rice cutgrass	15	No	OBL	Problematic Hydrophytic Vegetation¹ (Explain)	
4. Phalaris arundinacea / Reed canarygrass, Reed canary gr		No	FACW	Troblematic rrydrophytic vegetation (Explain)	
5. Polygonum hydropiper / Water pepper 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. 3. 9.				Definitions of Vegetation Strata	
10. 				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height.	at
12		= Total Cov	er	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Noody Vine Stratum (Plot size:30) 1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	of
2				Woody vines - All woody vines greater than 3.28 ft in height.	
··	0	= Total Cov	er	Hydrophytic Vegetation	
				Present? Yes X No	
Remarks: (Explain alternative procedures here or in a separa	te report.)				

SOIL Sampling Point: _____094-1W

(inches) Color (moist) \$\frac{\psi}{\psi}\$ Color (moist) \$\frac{\psi}{\psi}\$ Type\(\) Loc\(\) Testure Remarks	Depth	ription: (Describe to th Matrix			c Features				-		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Location: PL=Pore Lining, M=Matrix. Location: PLepore Lining, M=Matrix. Location: PLocatio	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. #Icocation: PL=Pore Lining, M=Matrix. #Idocators: Histosol (A1)	0-6	2.5Y 3/1	90	7.5YR 4/6	10	С	М	Clay loam			
Hydric Soil Indicators: Histosol (A1)	6-18	10YR 5/2	75	7.5YR 4/6	25	С	М	Clay loam			
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (A5) Sandy Redox (A5) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149A, 145, 149) Sandy Redox (S5) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Remarks) Piedmont Floodplain Remarks) Piedmont Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Remarks) Piedmont Floodplain Remarks) Piedmont Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Piedmont (Explain in Remarks)											
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1)					_						
Hydric Soil Indicators: Histosol (A1)					_						
Hydric Soil Indicators: Histosol (A1)											
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (A5) Sandy Redox (A5) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149A, 145, 149) Sandy Redox (S5) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Remarks) Piedmont Floodplain Remarks) Piedmont Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Remarks) Piedmont Floodplain Remarks) Piedmont Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Piedmont (Explain in Remarks)											
Histosol (A1)	Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ıced Matrix, MS=Masl	ked Sand Gr	ains.		² Loca ²	tion: PL=P	ore Lining, M=N	Matrix.
Histosol (A1)		ndicators:						Indicators	for Proble	ematic Hydric	Soils³:
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Plodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Thin Dark Surface (S9) (LRR K, L, R) 5 cm Mucky Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Tipe: Depth (inches): Type: Depth (inches): Type: Hydric Soil Present? Yes X No				Polyvalue Belov	v Surface (S	8) (LRR R,	MLRA 149			-	
Black Histic (A3)		` '									-
Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) Mesic Spodic (TF12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Tron-Manganese Masses (F12) (LRR K, L, I) Fiedmont Floodplain Soils (F19) (MLRA 149) Mesic Spodic (TA6) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Piedmont Floodplain Soils (F19) Mesic Spodic (TA6) Mes							,				
Stratified Layers (A5)		• •				, ,					, , ,
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, I) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Pindicators 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									•		(LRR K, L)
Thick Dark Surface (A12)		• • •	A11)								•
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):			•	Depleted Dark S	Surface (F7)						
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Sandy M	lucky Mineral (S1)		Redox Depressi	ions (F8)			— Piedm	ont Flood	plain Soils (F19	(MLRA 149B)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plandicators 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	Sandy G	Gleyed Matrix (S4)									
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plandicators 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	Sandy R	Redox (S5)						Red F	Parent Mate	erial (F21)	
Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Type	Stripped	Matrix (S6)						Very S	Shallow Da	ark Surface (TF	12)
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No	Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other	(Explain ir	n Remarks)	
Restrictive Layer (if observed): Type:	21 11 1										
Type:			and welland	nydrology must be p	resent, unies	ss disturbed	or problem	auc.			
Depth (inches): Hydric Soil Present? Yes X No		.ayer (if observed):									
	· · · —	1 \		<u></u>						., .,	
Remarks:	Depth (in	cnes):						Hyaric Soil Pi	resent?	Yes X	No
	Remarks:										

Project/Site:	19020 - S	outh Ripley		City/Count	ty:	Chautauqua	County	Sampling Date:	08/12/2020
Applicant/Owner:		C	onnectGen LLC	•		•	ate: New York	Sampling Point:	095-1W
Investigator(s):		K, RM		Section, To	ownship, Rang			wn of Ripley	
Landform (hillslope, terrac	ce, etc):	Flat	Local r		ve, convex, no		Flat	Slope	(%): 0
Subregion (LRR or MLRA				-	3966966	Long:			
Soil Map Unit Name:			Erie silt loam			_	NWI classification		PFO
Are climatic / hydrologic c		ite typical for t	his time of year?	Yes X	No	(If no,	– explain in Remark	(s.)	
, ,	, Soil, o		•	-		e "Normal Cir	cumstances" prese	ent? Yes)	X No
	, Soil , o						ain any answers in		
SUMMARY OF FINE		_				ns. transec	ts. important	features, etc.	
Hydrophytic Vegetation		Yes X			Is the Sampl		,	,	
Hydric Soil Present?	i Fiesent!	Yes X			within a Wet		Voc. V	No	
1	ant?						Yes X	No 095-1W PFO	_
Wetland Hydrology Pre	sent	Yes X	No	_	If yes, optiona	ai vvelianu Sili	e ID	095-1W PFO	
Remarks: (Explain alter	rnative procedures	s here or in a s	separate report.)						
` '	·		. ,						
HYDROLOGY									
Wetland Hydrology In									
Primary Indicators (min								ators (minimum of t	wo required)
Surface Water (A1	•	-	X Water-Staine	•	39)			l Cracks (B6)	
High Water Table	(A2)	-	Aquatic Faun					atterns (B10)	
Saturation (A3)		-	Marl Deposits	,			Moss Trim L	, ,	
Water Marks (B1)		-	Hydrogen Su	•	-			Water Table (C2)	
Sediment Deposits	` '	-		•	on Living Roots	s (C3)	Crayfish Bu	` ,	
Drift Deposits (B3)		-	Presence of I		. ,			isible on Aerial Ima	
Algal Mat or Crust		-			Tilled Soils (C	26)		Stressed Plants (D1	1)
Iron Deposits (B5)		-	Thin Muck Su					Position (D2)	
Inundation Visible		-	Other (Explai	in in Remark	(s)		Shallow Aqu	uitard (D3)	
X Sparsely Vegetate	d Concave Surfac	ce (B8)						aphic Relief (D4)	
							X FAC-Neutra	l Test (D5)	
Field Observations:									
Surface Water Present	? Yes	No 2	X Depth (inch	es).					
Water Table Present?	Yes		X Depth (inch						
Saturation Present?	Yes		X Depth (inch			Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring		110	Deptil (illeli			wettand myd	rology i resent:	103 <u>X</u>	
(includes capillary ining	<u> </u>								
Describe Recorded Da	ta (stream gauge,	monitoring we	ell, aerial photos, p	orevious insp	pections), if av	ailable:			
Remarks:									
Í.									

VEGETATION - Use scientific names of plants.				Sampling Point:095-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer rubrum / Red maple	50	Yes	FAC	Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	25	Yes	FACU	Species Across All Strata: 7 (B)
3		_		
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 71.4 (A/B)
6			-	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
Occilian (Obs.) Otastana (District)	75	_ = Total Cov	er	OBL species 15 x 1 = 15
Sapling/Shrub Stratum (Plot size: 15)	45	V	FACUL	FACW species 35 x 2 = 70
Fagus grandifolia / American beech	15	Yes	FACU	FAC species 60 x 3 = 180
Lindera benzoin / Northern spicebush Retula allambarianaia / Vallambirah	10	Yes	FACW	FACU species 40 x 4 = 160
3. Betula alleghaniensis / Yellow birch	10	Yes	FAC	UPL species 0 x 5 = 0
4				Column Totals: 150 (A) 425 (B)
5.				Prevalence Index = B/A = 2.83
6.			- -	
7.	35	- Total Cav		Hydrophytic Vegetation Indicators:
Horb Stratum (Plot size: 5		_ = Total Cov	еі	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 1. Carex intumescens / Greater bladder sedge	25	Voc	EACW/	X 2 - Dominance Test is >50%
Lycopus americanus / Bugleweed	<u>25</u> 15	Yes Yes	_ <u>FACW</u> OBL	X 3 - Prevalence Index ≤3.01
			OBL	4 - Morphological Adaptations (Provide supporting
4				Problematic Hydrophytic Vegetation¹ (Explain)
				
^				¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
0				
0				Definitions of Vegetation Strata
			 	
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
12	40	= Total Cov	er	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)	40	_ = 101a1 C0V	CI	
4				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
2.				Woody vines - All woody vines greater than 3.28 ft in
4.				height.
T		= Total Cov	er	Hydrophytic
		_ = 10(a) COV	Ci	Vegetation
				Present? YesX No
				Tresent: 103 X NO
Remarks: (Explain alternative procedures here or in a separa	te report.)			
	. ,			

SOIL Sampling Point: ____ 095-1W

Depth	ription: (Describe to th Matrix			x Features				- ,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	<u> </u>
0-3	10yr 2/1	100					Loam			
3-18	2.5y 6/2	70	7.5yr 5/6	30	C	М	Clay loam			
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=F	Pore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Probl	lematic Hydric	: Soils³:
Histosol			Polyvalue Belov	v Surface (St	8) (LRR R .	MLRA 149) (LRR K, L, I	
	oipedon (A2)		Thin Dark Surfa						edox (A16) (L	-
	stic (A3)		Loamy Mucky N			(1400)				(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed		(=: \:\ I L)				67) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					•	v Surface (S8)	
	d Below Dark Surface (A	۸11)	Redox Dark Su						ice (S9) (LRR	
		111)	Depleted Dark Su) (LRR K, L, R)
	ark Surface (A12)							ū	•	, , , , ,
	Mucky Mineral (S1)		Redox Depress	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								terial (F21)	-10)
	Matrix (S6)								ark Surface (TF	-12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent. unles	ss disturbed	or problem	atic.			
			, , , , , , , , , , , , , , , , , , , ,			1				
	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - 3	South Ripley	City/Co	ounty:	Chautauqua C	ounty	Sampling Date:	08/13/2020
Applicant/Owner:		Con	nectGen LLC		•		Sampling Point:	096-1U
Investigator(s):		JK, RM		n, Township, Ran			wn of Ripley	
Landform (hillslope, terra		•		ncave, convex, no		Convex		(%): 5
Subregion (LRR or MLRA				2.17427512	Long:	-79.698083		
Soil Map Unit Name:		CTC IVILLI OT 100	Erie silt loam	2.17 127012		NWI classification		1. 10.15.00
Are climatic / hydrologic of		site typical for this		Y No	(If no. 6	xplain in Remark		
Are Vegetation		**	· -		` '	ımstances" prese	,	(No
			naturally problema			n any answers in		<u> </u>
					=	-	•	
SUMMARY OF FINI	DINGS - Attac	on site map si	nowing sampling	point locatio	ns, transect	s, important	reatures, etc.	
Hydrophytic Vegetation	n Present?	Yes		Is the Samp	led Area			
Hydric Soil Present?		Yes	No X	within a Wet	land?	Yes	NoX	_
Wetland Hydrology Pre	esent?	Yes	No X	If yes, option	al Wetland Site	ID:		
Remarks: (Explain alte	ernative procedure	s here or in a sep	parate report.)					
HYDROLOGY								
Wetland Hydrology Ir								
Primary Indicators (mir		uired; check all the		(50)			ators (minimum of ty	wo requirea)
Surface Water (A	•		Water-Stained Leave	` '			l Cracks (B6)	
High Water Table	(A2)		Aquatic Fauna (B13)				atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1)	,		Hydrogen Sulfide Od				Water Table (C2)	
Sediment Deposit	` ,		Oxidized Rhizospher	-	s (C3)	Crayfish Bu		
Drift Deposits (B3	3)	_	Presence of Reduced	d Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reductio	on in Tilled Soils (0	C6)	Stunted or S	Stressed Plants (D1)
			Thin Muck Curfose (C	77)		Coomorphic	Position (D2)	
Iron Deposits (B5	5)		Thin Muck Surface (0			Geomorphic	FOSITION (DZ)	
Iron Deposits (B5) Inundation Visible	•	y (B7)	Other (Explain in Rer			Shallow Aqu		
	e on Aerial Imager		_			Shallow Aqu		
Inundation Visible	e on Aerial Imager		_			Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate	e on Aerial Imager		_			Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations:	e on Aerial Imager ed Concave Surfa	ace (B8)	Other (Explain in Rer			Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate	e on Aerial Imager ed Concave Surfa	No X	Other (Explain in Rer			Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations:	e on Aerial Imager ed Concave Surfa	ace (B8)	Other (Explain in Rer			Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present	e on Aerial Imager ed Concave Surfa t? Yes	No X	Other (Explain in Rer		Wetland Hydro	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	No <u>X</u>
Field Observations: Surface Water Present?	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes	No X No X	Other (Explain in Rer Depth (inches): Depth (inches):		Wetland Hydro	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	e on Aerial Imager ed Concave Surfa t? Yes Yes Yes Yes ge)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) raphic Relief (D4) Il Test (D5)	No X

VEGETATION - Use scientific names of plants.				Sampling Point: 096-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
1. Malus / Apple	30	Yes		Total Number of Dominant
2. Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Species Across All Strata: 9 (B)
3. Ostrya virginiana / Eastern hop-hornbeam	20	Yes	FACU	
4. Fraxinus pennsylvanica / Green ash	20	Yes	FACW	Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 33.3 (A/B)
6				
7		_		Prevalence Index worksheet:
	100	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Lonicera morrowii / Morrow's honeysuckle	40	Yes	FACU	FACW species x 2 = 40
2. Rosa multiflora / Multiflora rose, Multiflora rosa	30	Yes	FACU	FAC species 60 x 3 = 180
3. Crataegus / Hawthorn	15	No		FACU species 140 x 4 = 560
4				UPL species 0 x 5 = 0
5				Column Totals: 220 (A) 780 (B)
6				Prevalence Index = B/A = 3.55
7		_		Hydrophytic Vegetation Indicators:
	85	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
Solidago rugosa / Wrinkle-leaf goldenrod	30	Yes	FAC	3 - Prevalence Index ≤3.0¹
2. Symphyotrichum prenanthoides / Crooked-stem american-as	30	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Rubus idaeus / Common red raspberry	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4		_		: resternate : i) arep://iie regetation: (_i:ip:aiii)
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7		_		20 process, amose distances of processing and
8		_		Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12			_	Sapling/shrub - Woody plants less than 3 in. DBH and
	80	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.		-		height.
4		T-4-1 O		Undrankadia
	0	_ = Total Cov	er	Hydrophytic
				Vegetation Present? Yes No X
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			
(-1 7			

SOIL Sampling Point: 096-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10yr 3/2 100 0-12 Lom ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: 12 Depth (inches): **Hydric Soil Present?** No X Remarks: Rock refusal 12in- multiple locations

Project/Site:	19020 - South Rig	oley	City/County:	Chautauqua	County	Sampling Date:	08/13/2020
Applicant/Owner:	'	•	_	•	tate: New York	· · · -	096-1W
Investigator(s):	JK,RM		Section, Township,			vn of Ripley	
Landform (hillslope, terrac	,	ope Local	relief (concave, conve		Concave		(%): 3-8
Subregion (LRR or MLRA			•				`
Soil Map Unit Name:		Erie silt loa			NWI classification		PSS
Are climatic / hydrologic c				No (If no	, explain in Remark	-	
, ,	, Soil, or Hydrol	•			rcumstances" prese	,	(No
	, Soil , or Hydrol				lain any answers in		<u> </u>
SUMMARY OF FINE					•	•	
					cts, important	icatures, etc.	
Hydrophytic Vegetation				ampled Area			
Hydric Soil Present?	Yes			Wetland?	Yes X		_
Wetland Hydrology Pre	sent? Yes	X No	If yes, o	otional Wetland Sit	te ID:	021-2W PSS	
Remarks: (Explain alter	native procedures here o	r in a separate report)	•				
Tromano. (Explain altor	native procedures note o	in a coparato report.)					
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min	imum of one required; che	eck all that apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)	Water-Stain	ed Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table (A2)	Aquatic Fau	ına (B13)		X Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Depos	its (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen S	ulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	; (B2)	Oxidized Rh	nizospheres on Living	Roots (C3)	Crayfish Bu	rows (C8)	
Drift Deposits (B3)		Presence of	Reduced Iron (C4)		Saturation V	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Recent Iron	Reduction in Tilled Sc	oils (C6)		Stressed Plants (D1	
Iron Deposits (B5)		Thin Muck S	Surface (C7)		Geomorphic	Position (D2)	
I — ' ' '	on Aerial Imagery (B7)		ain in Remarks)		Shallow Aqu		
	d Concave Surface (B8)	_ ` `	,		X Microtopogr	aphic Relief (D4)	
, ,	,				X FAC-Neutra		
Field Observations:							
Surface Water Present	? Yes N	lo X Depth (inc		-			
Water Table Present?	Yes N	lo X Depth (inc	hes):	_			
Saturation Present?	Yes N	lo X Depth (inc	hes):	Wetland Hyd	drology Present?	Yes X	No
(includes capillary fringe	e)						
Describe Recorded Dat	a (stream gauge, monitor	ing well parial photos	provious inspections)	if available:			
Describe Recorded Dat	a (Stream gauge, monitor	ing well, aerial priotos,	previous irispections)	, ii avaliable.			
Remarks:							

Total Number of Dominant Species Status Spe	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (B) 100.0 (A/I ultiply by: 0 210 60	10	: <u> </u>	nt Species W, or FAC: minant	ominar	umber of Doi				<u>.</u>				
Number of Dominant Species That Are OBL, FACW, or FAC: 5 4 1 1 1 1 1 1 1 1 1	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (B) 100.0 (A/I ultiply by: 0 210 60	10	: <u> </u>	nt Species W, or FAC: minant	ominar	umber of Doi								
Absolute Opinional Indicator That Are OBL, FACW, or FAC: 5 6 7	Absolute Dominant Indicator Species? Status	5 (B) 100.0 (A/I ultiply by: 0 210 60	10	: _	W, or FAC:										
Tree Stratum	Tree Stratum	5 (B) 100.0 (A/I ultiply by: 0 210 60	10	- : _	minant	-,	IGC 1.5 ,	ator	Indic	Dominant	Absolute				
1.	1. 2.	100.0 (A/I	10	:: <u> </u>									30	.ize. 3	Stratum (Plot siz
2.	2.	100.0 (A/I	10	:: <u> </u>		r of Doi	stal Number ('		орожет.	/00010.)		<u> </u>
3	3.	100.0 (A/I	10	:: <u> </u>	วิโโสเส.										
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (100.0 100.0 100.0 (100.0 100.0 100.0 (100.0 100.0 100.0 (100.0 100.0 100.0 (100.0 100.0 100.0 (100.0 100.0 (100.0 100.0 100.0 (100.0 100.0 (100.0 100.0 (100.0 100.0 (100.0 100.0 (100.0 100.0 (100.0 100.0 (100.0 (100.0 100.0 (100.0	Percent of Dominant Species That Are OBL, FACW, or FAC:	0 210 60	Multip	:: <u> </u>)SS A	Decies Auroc			-					
That Are OBL, FACW, or FAC: 100.0 (6.6) That Are OBL, FACW, or FAC: 100.0 (7.5) (8.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7) (9.7) (9.6) (9.7) (9.6) (9.7) (9.6) (9.7)	That Are OBL, FACW, or FAC:	0 210 60	Multip	:: <u> </u>		-t-on	-+ -+ Dor			-					
Prevalence Index worksheet: Total % Cover of: Multiply by:	Prevalence Index worksheet: Total % Cover of: Normalization Normaliza	0 210 60	Multip		-					-, ,					
Prevalence Index worksheet: Total % Cover of Sapling/Shrub Stratum (Plot size: 15) Sapling/Shrub Stratum (Plot size: 15) Total % Cover of September Sapling/Shrub Stratum (Plot size: 15) Total % Cover of September Sapling/Shrub Stratum (Plot size: 15) Total % Cover of September Sapling/Shrub Stratum (Plot size: 15) Total % Cover of September Sapling/Shrub Stratum (Plot size: 15) Total Cover Total Cover	Total Cover Total Cover Total Cover Total Cover Total % Cover of:	0 210 60		t:	W, or FAC:	L, FAC	nat Are OBL,								
Total Cover Sapling/Shrub Stratum (Plot size: 15	Total Cover Total Cover Total Cover OBL species O	0 210 60		t:	·Irohooti	' day 1	lence In	[- ——					
Salping/Shrub Stratum (Plot size: 15 15 16 15 15 17 16 16 16 16 16 16 16	Sapling/Shrub Stratum (Plot size: 15 1. Salix bebbiana / Gray willow, Bebb's willow 75 Yes FACW FACW species 105 x 2 = FAC species 20 x 3 = FAC species 0 x 4 = UPL species 0 x 4 = UPL species 0 x 5 = Column Totals: 125 (A) Prevalence Index = B/A =	0 210 60													
Salix bebbiana / Gray willow, Bebb's willow 75 Yes FACW	Salix bebbiana / Gray willow, Bebb's willow 75 Yes FACW FACW species 105 x 2 = FAC species 20 x 3 = FACU species 0 x 4 = UPL species 0 x 5 = Column Totals: 125 (A) Prevalence Index = B/A =	210 60	x 1 =						er/	= Total Cov	0				
FAC species 20	FAC species 20 x 3 = FACU species 0 x 4 = UPL species 0 x 5 = Column Totals: 125 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is >50% X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 5 - Notice	60		_			•							_	
FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 125 (A) 270 Prevalence Index = B/A = 2.16 Hydrophytic Vegetation Indicators:	FACU species 0 x 4 =			_				CW_	FA	Yes	75		ob <u>'s willow</u>	ay willow, Beb	alix bebbiana / Gra
Tree - Woody Vine Stratum (Plot size:	Alter Description FACU species Unity Column Totals 125 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:	0		_			•			· ——				<u> </u>	
UPL species 0 x 5 = 0 Column Totals: 125 (A) 270 Prevalence Index = B/A = 2.16 Total Cover FACW FACW FACW FACW FACW	UPL species 0 x 5 = Column Totals: 125 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is >50% X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrop		x 4 =	_ x 4			•								
Column Totals: 125 (A) 270 Prevalence Index = B/A = 2.16	Column Totals: 125 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is >50% X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 5 - Nocional Test for Hydrophytic Vegetation Indicators: 4 - Problematic Hydrophytic Vegetation Indicators: 5 - Nocional Test for Hydrophytic Vegetation Indicators: 4 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 4 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 8 - Nocional Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 7 - Nocional Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetat	0	x 5 =	x 5	0		PL species								
Prevalence Index = B/A = 2.16 Prevalence Index = 1.6 Prevalence	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 20 Yes FACW X 2 - Dominance Test is >50% X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydroph	270 ((A)	(A)	125	ls:	olumn Totals								
Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Norphytic Vegeta	Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 20			_				—							
Total Cover	Total Cover					JI.C.	• • •	—		-					
Herb Stratum (Plot size: 5)	Total Cover		tors:	icators:	ation Indic	Veget	vdrophytic \	—							
Herb Stratum (Plot size:	Activation Chord size: 5 1. Onoclea sensibilis / Sensitive fern 20 Yes FACW 2. Geum laciniatum / Rough avens 10 Yes FACW 3. Symphyotrichum prenanthoides / Crooked-stem american-as 10 Yes FAC Yes FAC 2. Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Prophytic Vegetation 10 Yes FAC Yes FAC Problematic Hydrophytic Vegetation 10 Yes FAC Yes	ation				-			er	= Total Cov	75			_	
1. Onclea sensibilis / Sensitive fern 20 Yes FACW 2. Geum laciniatum / Rough avens 3. 9 yes phyotrichum prenanthoides / Crooked-stem american-as 10 Yes FAC 4. Solidago rugosa / Wrinkle-leaf goldenrod 10 Yes FAC 5. 10 Yes FAC 5. 11 yes present, unless disturbed or problematic. 12 yes present, unless disturbed or problematic. 13 yes present, unless disturbed or problematic. 14 yes present, unless disturbed or problematic. 15 yes present, unless disturbed or problematic. 15 yes present, unless disturbed or problematic. 16 yes present, unless disturbed or problematic. 17 yes present, unless disturbed or problematic. 18 yes present, unless disturbed or problematic. 19 y	1. Onoclea sensibilis / Sensitive tern 20 Yes FACW 2. Geum laciniatum / Rough avens 3. Symphyotrichum prenanthoides / Crooked-stem american-as 10 Yes FAC 4. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago rugosa / Wrinkle-leaf goldenrod 5. X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Proproduction of the problematic Hydrophytic Vegetation of t	u	-	•)			
2. Geum laciniatum / Rough avens 3. Symphyotrichum prenanthoides / Crooked-stem american-as; 10 Yes FAC 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 50 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	2. Geum laciniatum / Rough avens 10 Yes FACW 4 - Morphological Adaptations (Pro Symphyotrichum prenanthoides / Crooked-stem american-as 10 Yes FAC Problematic Hydrophytic Vegetation 10 Yes Problem		,					CW	FA	Yes	20	_	<u>n</u>	Sensitive fern	noclea sensibilis / S
A. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago rugosa / Wrinkle-leaf goldenrod 5.	3. Symphyotrichum prenantnoides / Crooked-stem american-as 10 Yes FAC Problematic Hydrophytic Vegetatio 4. Solidago rugosa / Wrinkle-leaf goldenrod 10 Yes FAC Problematic Hydrophytic Vegetatio	'	Provide					CW_	FA	Yes	10			Rough avens	eum laciniatum / Re
4. Solidago rugosa / Wrinkle-leaf goldenrod 5. 6. 7. 8. 9. 1. 10. 10. 10. 10. 10. 10. 10. 10. 10.	4. Solidago rugosa / Wrinkle-leaf goldenrod 10 Yes FAC Problematic Hydrophytic Vegetatio					-		AC.	- —_ <u>F</u>	Yes	10	stem american-as	/ Crooked-		
5.	5	(Explain)	getation' (E	Vegeta	drophytic v	atic Hy	_ Problema			. —					
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	o. Indicators of hydric soil and wetland by														
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	e Indicators of right Soil and Wetland Hy	rology must	and hydrol	vetland	soil and we	hydric	ndicators of h								
7. 8. 9. 9. 9. 10. 11. 12. 12. 150 = Total Cover 150 Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	6 be present, unless disturbed or problem		•			-		—							
9.	7.			•			•	— 							
9.			a	rata	etation Stra	of Vege	efinitions of			<u> </u>					
Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	9														
11		re in diameter at	a) or more	cm) or	3 in (7.6 c	nlants	- Woody								
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	breast height (DBH), regardless of height									· ——					
Woody Vine Stratum (Plot size: 30) 1.			-		-										
Woody Vine Stratum (Plot size: 30) 1.		3 in. Den and							or	- Total Cov					
1. Size, and woody plants less than 3.28 ft tall. 2. Size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 4. Size, and woody plants less than 3.28 ft in height. Hydrophytic Vegetation	Mandy Vine Charles (Disk size)	" of	•			-			Ci	- 1014.		1	30	(Diot cize:	1. Vino Stratum
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation	Tierb - All nerbaccous (non-woody) plan				•									(PIOL SIZE	Jy VINE Stratum
3								—							
4. 0 = Total Cover Hydrophytic Vegetation	woody vines - All woody vines greater	nan 3.28 ft in	greater than	es great	voody vines	s - All v									
4. 0 = Total Cover Hydrophytic Vegetation			•												
Vegetation															
Vegetation	0 = Total Cover Hydrophytic					:	ydrophytic		/er	= Total Cov	0		_		
	Vegetation						egetation	1							
Present? Yes X No		ı					gotation								
			No	X	Yes 2		_								

SOIL Sampling Point: ____ 096-1W

	Matrix			x Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	. <u></u>	Remarks	
0-5	10yr 3-1	100			С		Loam			
5-18	10yr 5/2	85	10yr 5/8	15	D	M	Clay loam			
			-							
			-							
				- 						
				- 						
Type: C=Cor	ncentration, D=Depletion	, RM=Redu	iced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Matri	Χ.
Hydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydric Soil	s³:
Histosol			Polyvalue Belov	v Surface (S	3) (LRR R .)	MLRA 149) (LRR K, L, MLRA	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR K	-
Black Hi			Loamy Mucky N			1400)			at or Peat (S3) (LRI	
	en Sulfide (A4)		Loamy Gleyed I						37) (LRR K, L)	, , , ,
	l Layers (A5)		X Depleted Matrix					•	v Surface (S8) (LRI	BK I)
	• • •	11)							· , ·	
	d Below Dark Surface (A	.11)	Redox Dark Sur						ce (S9) (LRR K, L)	
	ark Surface (A12)		Depleted Dark S					ū	Masses (F12) (LI	
	lucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19) (M	
	Gleyed Matrix (S4)								A6) (MLRA 144A,	145, 149B)
	tedox (S5)							Parent Mat		
	Matrix (S6)								ark Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLI	RA 149B)					Othe	r (Explain ir	n Remarks)	
3Indicators of	hydrophytic vegetation a	and wetland	l hydrology must be n	resent unles	s disturbed	or problem	atic			
		and Wodane	- Trydrology made 50 p		- diotal boa	Т	auo.			
Restrictive L	.ayer (if observed):									
Туре:									Yes X	No
			<u> </u>				Hydric Soil F	resent?	163 <u>A</u>	
Type: Depth (in			<u> </u>				Hydric Soil F	resent?	165 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent?	165 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent?	163	
Type: Depth (in							Hydric Soil F	resent?	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent?	163	
Type: Depth (in							Hydric Soil F	resent?	163	
Type: Depth (in							Hydric Soil F	resent	163	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Туре:							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	
Type: Depth (in							Hydric Soil F	resent	163 <u>X</u>	

Project/Site:	19020 -	South Ripley		City/Coun	tv:	Chautauqua (County	Sampling Date:	08/13/2020
Applicant/Owner:			nnectGen LLC	,	, <u> </u>	•	ate: New York		096-2U
Investigator(s):		RM,JK		Section, T	ownship, Ran			wn of Ripley	
Landform (hillslope, terra	ce, etc):	Hillslope	Local re		ve, convex, no		Convex	· · ·	e (%): 5-8
Subregion (LRR or MLRA	· · ·	R R MLRA 139	Lat:	-	1739492	-	-79.699721		` '
Soil Map Unit Name:	•		Chadakoin silt lo	oam		_	NWI classification	on:	
Are climatic / hydrologic o	conditions on the	site typical for thi	is time of year?	Yes X	. No	(If no,	_ explain in Remark	s.)	
Are Vegetation	, Soil ,	or Hydrology	significantl	y disturbed	? A	re "Normal Cire	cumstances" prese	ent? Yes	X No
		or Hydrology				needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FINI	DINGS - Atta	ch site map s	howing sam	npling po	int locatio	ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes	No X		Is the Samp		, ,	•	
Hydric Soil Present?	111000111.	Yes	NoX	_	within a Wet		Yes	NoX	
Wetland Hydrology Pre	esent?	Yes	No X	-		al Wetland Site			_
- Violana Hydrology i re						ui Wolland Oll			
Remarks: (Explain alte	rnative procedure	es here or in a se	parate report.)						
HYDROLOGY									
Wetland Hydrology In Primary Indicators (mir		usirod: obook all th	act apply)				Cocondon, India	otoro (minimum of	two required)
Surface Water (A	•	ulleu, check all ti	Water-Staine	d Leaves (F	30/			ators (minimum of I Cracks (B6)	(wo required)
High Water Table	•	_	_ Aquatic Faun	•	(פט			atterns (B10)	
Saturation (A3)	(A2)	_	Marl Deposits				Moss Trim I		
Water Marks (B1)		_	_ Hydrogen Su		C1)			Water Table (C2)	
Sediment Deposit		_	_		on Living Root	s (C3)	Crayfish Bu		
Drift Deposits (B3		_	Presence of I	-	-	s (C3)		/isible on Aerial Im	nageny (C0)
Algal Mat or Crust	-	_	_		n Tilled Soils (0	26)		Stressed Plants (D	
Iron Deposits (B5)		_	Thin Muck Su		r rinea cons (v	30)		Position (D2)	1)
Inundation Visible	•	rv (B7)	Other (Explai	, ,	ks)		Shallow Aqu		
Sparsely Vegetate	-	-			,			aphic Relief (D4)	
							FAC-Neutra		
							_ 		
Field Observations:									
Surface Water Present	-	NoX		· —					
Water Table Present?	-	NoX	_ ' '	· —					
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	je)								
Describe Recorded Da	ita (stream gauge	monitoring well	aerial photos n	revious ins	nections) if a	/ailable·			
Describe Recorded Ba	ta (Stream gaage	z, morntoring wen,	, acriai priotos, p	710410415 11115	peotions), ii a	ranabic.			
Remarks:									

Absolute	r FAC: (A) Int a: 6 (B) ecies r FAC: 0.0 (A/B) sheet: Multiply by: 0
Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: 0	r FAC: 0 (A) Int a: 6 (B) ecies r FAC: 0.0 (A/B) ecies r FAC: 0.0 (A/B) sheet: Multiply by: 0 x1 = 0 0 x2 = 0 0 x3 = 0 0 x3 = 0 0 x4 = 520 0 x5 = 0 0 (A) 520 (B) = B/A = 4.0 In Indicators: lydrophytic Vegetation
Absolute Dominant Indicator Species? Status	r FAC: 0 (A) Int Int Int Int Int Int Int Int Int In
Tree Stratum (Plot size: 30) %Cover Species? Status Status Total Number of Dominant Total Number of Dominant Total Number of Dominant Total Number of Dominant Species Across All Strata: 6 6 2 Crataegus / Hawthorn 20 Yes Percent of Dominant Species Total Are OBL, FACW, or FAC: 0.0 0.0 6	mint fa: 6 (B) ecies r FAC: 0.0 (A/B) ssheet: Multiply by: 0 x 1 = 0 0 x 2 = 0 0 x 3 = 0 0 x 3 = 0 0 x 4 = 520 0 x 5 = 0 0 (A) 520 (B) en Indicators: lydrophytic Vegetation
1. Prunus pensylvanica / Pin cherry 40 Yes FACU 2. Crataegus / Hawthorn 20 Yes Species Across All Strata: 6 3. Malus / Apple 10 No Percent of Dominant Species 5. — That Are OBL, FACW, or FAC: 0.0 6. — That Are OBL, FACW, or FAC: 0.0 7. — Total Cover OBL species Index worksheet: Total % Cover of: Multiply by: 1. Rosa multiflora / Multiflora rose, Multiflora rose, Multiflora rose 30 Yes FACU FACW species 0 x 1 = 0 FAC species 0 x 3 = 0 FAC species 0 x 5 = 0 FAC species 130 x 4 = 520 FAC species 130 x 4 = 520 UPL species 0 x 5 = 0 Column Totals: 130 (A) 520 FAC species 130 x 4 = 520 FAC species 1	a: 6 (B) ecies r FAC: 0.0 (A/B) sheet: Multiply by: 0
2. Crataegus / Hawthorn 2.	a: 6 (B) ecies r FAC: 0.0 (A/B) sheet: Multiply by: 0
3. Malus / Apple 10 No 4	ecies r FAC: 0.0 (A/B) sheet: Multiply by: 0
4.	Multiply by: Multiply by:
5.	Multiply by: Multiply by:
5. 6. 7. That Are OBL, FACW, or FAC: 0.0 7. Total Cover Sapling/Shrub Stratum (Plot size: 15) 70 = Total Cover OBL species 0 x1 = 0 1. Rosa multiflora / Multiflora rose, Multiflora rose and substitution of the species of spec	Multiply by: 0
6.	Multiply by: 0
Total Cover Total Cover Total % Cover of: Multiply by:	Multiply by: 0
Total Cover Total % Cover of: Multiply by:	0 x1 = 0 0 x2 = 0 0 x3 = 0 30 x4 = 520 0 x5 = 0 30 (A) 520 (B) = B/A = 4.0
Sapling/Shrub Stratum (Plot size: 15) Total Cover Herb Stratum (Plot size: 5) Solidago canadensis / Canada goldenrod Solidago canadensis / Common red raspberry Solidago canadensis / Commo	0 x1 = 0 0 x2 = 0 0 x3 = 0 30 x4 = 520 0 x5 = 0 30 (A) 520 (B) = B/A = 4.0
According of Hilds of Statum (Flot size) 1. Rosa multiflora / Multiflora rose, Multiflora rosa 30 Yes FACU FACW species 0 x 2 = 0 0 2. Crataegus / Hawthorn 20 Yes FACU species 0 x 3 = 0 0 3. 4. UPL species 0 x 5 = 0 0 4. Column Totals: 130 (A) 520 Prevalence Index = B/A = 4.0 4.0 7. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹ 3. Yes FACU 4 - Morphological Adaptations (Provide supportion Problematic Hydrophytic Vegetation¹ (Explain) 5. 1 Indicators of hydric soil and wetland hydrology must	0 x 2 = 0 0 x 3 = 0 30 x 4 = 520 0 x 5 = 0 30 (A) 520 (B) = B/A = 4.0
2. Crataegus / Hawthorn 2. Crataegus / Hawthorn 3.	0 x 3 = 0 30 x 4 = 520 0 x 5 = 0 (A) 520 (B) = B/A = 4.0
FACU species 130 x 4 = 520	30 x 4 = 520 0 x 5 = 0 30 (A) 520 (B) = B/A = 4.0
4. 5. 6. 7. Herb Stratum (Plot size: 5) 1. Solidago canadensis / Canada goldenrod 2. Rubus idaeus / Common red raspberry 30	0 x 5 = 0 30 (A) 520 (B) = B/A = 4.0
5. Column Totals: 130 (A) 520 Prevalence Index = B/A = 4.0 Herb Stratum (Plot size: 5) 1. Solidago canadensis / Canada goldenrod 2. Rubus idaeus / Common red raspberry 3. Yes FACU 3. Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must	30 (A) 520 (B) = B/A = 4.0 (B) n Indicators: lydrophytic Vegetation
5. Column Totals: 130 (A) 520 Prevalence Index = B/A = 4.0 Herb Stratum (Plot size: 5) 1. Solidago canadensis / Canada goldenrod 30 Yes FACU 2. Rubus idaeus / Common red raspberry 30 Yes FACU 3. Yes FACU 4. Morphological Adaptations (Provide supportion Problematic Hydrophytic Vegetation (Explain) 4. The stratum (Plot size: 5) 1. Rapid Test for Hydrophytic Vegetation (Provide supportion Problematic Hydrophytic Vegetation (Explain) 1. Problematic Hydrophytic Vegetation (Explain)	= B/A = 4.0 n Indicators: lydrophytic Vegetation
6. Prevalence Index = B/A = 4.0 7	n Indicators: lydrophytic Vegetation
7	lydrophytic Vegetation
Herb Stratum (Plot size: 5) Solidago canadensis / Canada goldenrod 30 Yes FACU 2. Rubus idaeus / Common red raspberry 30 Yes FACU 3. Yes FACU 4 - Morphological Adaptations (Provide supportion of the problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and wetland hydrology must	lydrophytic Vegetation
Herb Stratum (Plot size: 5) 1. Solidago canadensis / Canada goldenrod 30 Yes FACU 2. Rubus idaeus / Common red raspberry 30 Yes FACU 3. 4.	
1. Solidago canadensis / Canada goldenrod 2. Rubus idaeus / Common red raspberry 3. Solidago canadensis / Canada goldenrod 3. Yes FACU 3. Prevalence Index ≤3.0¹ 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5. Indicators of hydric soil and wetland hydrology must	
2. Rubus idaeus / Common red raspberry 30 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5. Indicators of hydric soil and wetland hydrology must	is >50%
2. Rubus idaeus / Common red raspberry 30 Yes FACU 4 - Morphological Adaptations (Provide supporting the problematic Hydrophytic Vegetation (Explain) 1 - Indicators of hydric soil and wetland hydrology must	ex ≤3.0¹
3 Problematic Hydrophytic Vegetation¹ (Explain) 5 Indicators of hydric soil and wetland hydrology must	
5. Indicators of hydric soil and wetland hydrology must	
5 Indicators of hydric soil and wetland hydrology must	onytic vegetation (Explain)
I ¹Indicators of hydric soil and wetland hydrology must	
	and wetland hydrology must
be present, unless disturbed or problematic.	rbed or problematic.
8 Definitions of Vegetation Strata	on Strata
9	
10	
11 breast height (DBH), regardless of height.	n. (7.6 cm) or more in diameter at
12 Sapling/shrub - Woody plants less than 3 in. DBH a	
60 = Total Cover greater than or equal to 3.28 ft (1 m) tall.	gardless of height.
West in View Observer (Distriction)	pardless of height. plants less than 3 in. DBH and
Tierb - All herbaceous (non-woody) plants, regardles	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall.
	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of
2 Woody vines - All woody vines greater than 3.28 ft in	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of
	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of ess than 3.28 ft tall.
3 height.	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of ess than 3.28 ft tall.
3 height	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of ess than 3.28 ft tall.
	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of ess than 3.28 ft tall.
4	pardless of height. plants less than 3 in. DBH and 3.28 ft (1 m) tall. non-woody) plants, regardless of ess than 3.28 ft tall.
4	pardless of height. plants less than 3 in. DBH 3.28 ft (1 m) tall. non-woody) plants, regardle ess than 3.28 ft tall.

SOIL Sampling Point: 096-2U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 2.5y 4/3 100 Silt loam 0-10 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: 10 Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Rock refusal 10in multiple locations

Project/Site:	19020 - South Ripley		City/County:	Chautauqua	a County	Sampling Date:	08/13/2020
Applicant/Owner:	1 7	ConnectGen LLC	, , <u> </u>		State: New York	· · · · -	096-2W
Investigator(s):	JK, RM		Section, Township			wn of Ripley	
Landform (hillslope, terrace	•	Local re	elief (concave, conv		Concave	. , , , , , , , , , , , , , , , , , , ,	: (%): O
	LRR R MLRA 13					•	` '
Soil Map Unit Name:		Ashville silt loa			NWI classificati		PEM
	nditions on the site typical for			No (If no	— o, explain in Remar		
, ,	Soil, or Hydrology	•			ircumstances" pres	,	X No
	Soil, or Hydrology				olain any answers ir		
	NGS - Attach site ma				•	•	
Hydrophytic Vegetation F		•	· · · ·	· · · · · · · · · · · · · · · · · · ·	,portuni		
Hydric Soil Present?	Present? Yes Yes			Sampled Area a Wetland?	Voc. V	No	
,	_				Yes X	No 096-2W PEM	_
Wetland Hydrology Prese	ent? Yes	X No	II yes, c	ptional Wetland S	пе п.	090-2VV FEIVI	
Remarks: (Explain altern	ative procedures here or in	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indi	icators:						
	num of one required; check	all that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)	• •		d Leaves (B9)		·	il Cracks (B6)	
High Water Table (A	.2)	Aquatic Faun	` '			atterns (B10)	
Saturation (A3)	,	Marl Deposits				Lines (B16)	
Water Marks (B1)			lfide Odor (C1)		_	n Water Table (C2)	
Sediment Deposits	(B2)		zospheres on Living	Roots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)	,	_	Reduced Iron (C4)	,		Visible on Aerial Ima	agery (C9)
Algal Mat or Crust (F	34)		Reduction in Tilled S	oils (C6)		Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck Su		,		c Position (D2)	,
	n Aerial Imagery (B7)		n in Remarks)		Shallow Ag		
<u> </u>	Concave Surface (B8)		,			raphic Relief (D4)	
					X FAC-Neutra		
							
Field Observations:	V N	V D " " 1					
Surface Water Present?	Yes No _			_			
Water Table Present?	Yes No _	X Depth (inch	· —	-			NI V
Saturation Present?	Yes No _	X Depth (inch	es):	_ Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)	,						
Describe Recorded Data	(stream gauge, monitoring	well, aerial photos, p	revious inspections), if available:			
Domarko							
Remarks:							

0	Species?	er	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant 2 (B) Percent of Dominant Species 2 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) OBL species 55 x 1 = 55 FACW species 45 x 2 = 90 FAC species 0 x 3 = 0
0	Species?	Status	Number of Dominant Species 2 (A) Total Number of Dominant 2 (B) Species Across All Strata: 2 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	Species?	Status	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant 2 (B) Percent of Dominant Species 2 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Multiply by: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	Species?	Status	Total Number of Dominant 2 (B) Percent of Dominant Species 2 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 55 x 1 = 55 FACW species 45 x 2 = 90 90
0	= Total Cove	er	Species Across All Strata: 2 (B) Percent of Dominant Species 100.0 (A/B) That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 55 x 1 = 55 FACW species 45 x 2 = 90 90
0	= Total Cove	er	Species Across All Strata: 2 (B) Percent of Dominant Species 100.0 (A/B) That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 55 x 1 = 55 FACW species 45 x 2 = 90 90
0	= Total Cove	er	Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Multiply by: Total % Cover of: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	= Total Cove	er	Prevalence Index worksheet: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	= Total Cove	er	Prevalence Index worksheet: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	= Total Cove	er	Prevalence Index worksheet: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	= Total Cove	er	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
0	= Total Cove	er	Total % Cover of: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
	- 		Total % Cover of: Multiply by: OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
	- 		OBL species 55 x 1 = 55 FACW species 45 x 2 = 90
			FACW species 45 x 2 = 90
			EAC encoine 0 viv = 11
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 100 (A) 145 (B)
			Prevalence Index = B/A = 1.45
			Flevalence mack - Dr
			Hydrophytic Vegetation Indicators:
0	= Total Cove	:r	
	•		X 1 - Rapid Test for Hydrophytic Vegetation
40	Yes	OBL	X 2 - Dominance Test is >50%
			X 3 - Prevalence Index ≤3.01
		FACTV	4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
10	No	OBL	
5	No	FACW	41. If the office self and watland hydrology must
5	No	OBL	¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	· -		breast height (DBH), regardless of height.
	• ———		Sapling/shrub - Woody plants less than 3 in. DBH and
110	- Total Cove		greater than or equal to 3.28 ft (1 m) tall.
110	- 10161 00	i	
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
			height.
<u> </u>	- Total Cove		Hydrophytic
	IU(a) 00.0	ſ	
			Vegetation
			Present? YesX No
	40 10 10 5 5	40 Yes 10 No 10 No 5 No 5 No 110 = Total Cove	Yes

SOIL Sampling Point: 096-2W

Depth	ription: (Describe to the Matrix			r Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	5y 3/1	95	5yr 4/6	5	С	PL,M	Clay loam			
6-18	5Y 4/1	80	5yr 4/6	20	C	M	Clay loam			
			-							
	<u> </u>									
	<u> </u>									
				-				-		
				-				-		
Type: C=Co	ncentration, D=Depletio	n RM=Redi	.ced Matrix MS=Masl	ed Sand Gr	ains		²l oca	tion: PI =P	ore Lining, M=N	//atrix
			acca manx, me maci	tou ound on						nation.
Hydric Soil I	ndicators:							for Probl	ematic Hydric	Soils³:
Histosol	•		Polyvalue Belov) (LRR K, L, M	-
Histic E	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	RR R, MLRA	A 149B)	Coast	Prairie Re	edox (A16) (LR	R K, L, R)
Black Hi	istic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm	Mucky Pea	at or Peat (S3)	(LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N				Dark	Surface (S	7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	A11)	X Redox Dark Sur						ce (S9) (LRR I	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)							Parent Mat		10)
	d Matrix (S6) irface (S7) (LRR R, ML	DA 440B\							ark Surface (TF [.] n Remarks)	12)
Daik Su	inace (37) (LKK K, WL	.KA 1430)					Other	(Explain ii	i Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Da adad adda a 1	(if all and all all all all all all all all all al									
	_ayer (if observed):									
Type:	achae):						Hydric Soil P	rocont?	Voc. V	No
Depth (in							nyuric Soli Pi	resent?	Yes X	No
Remarks:										

Project/Site:	19020	- South Ripley		City/Cou	nty:	Chautauqua	County	Sampling Date:	08/27/2020
Applicant/Owner:			nnectGen LLC	,	•		ate: New York	· · ·	096-3U
Investigator(s):		JAM JD JG		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra			Local re		ave, convex, n		convex		(%): 5-10
Subregion (LRR or MLRA			Lat:		17477385	Long:	-79.697396		
Soil Map Unit Name:	·		Erie Silt loam				NWI classificati		
Are climatic / hydrologic o	conditions on th	ne site typical for thi	is time of vear?	Yes	X No	(If no.	_ , explain in Remarl	-	
Are Vegetation		71	,				cumstances" pres	•	K No
		, or Hydrology					ain any answers in	·	
SUMMARY OF FINI						-	•	•	
Hydrophytic Vegetation		Yes		· •	Is the Samp	· · · · · · · · · · · · · · · · · · ·	,		
Hydric Soil Present?	i i ieseiit:	Yes			within a We		Yes	No. Y	
Wetland Hydrology Pre	esent?	Yes		_		nal Wetland Site	· · · · · · · · · · · · · · · · · · ·	No <u>X</u>	_
Remarks: (Explain alte		ures here or in a se			, , . , . ,				
HYDROLOGY									
Wetland Hydrology In	ndicators:								
Primary Indicators (mir		equired: check all th	nat annly)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A		squired, orlean un u	Water-Staine	d Leaves ((B9)			I Cracks (B6)	wo required)
High Water Table	,		Aquatic Faun		(20)			atterns (B10)	
Saturation (A3)	(/ :=/	_	Marl Deposits					Lines (B16)	
Water Marks (B1))		Hydrogen Su		(C1)			Water Table (C2)	
Sediment Deposit		_			on Living Roo	ts (C3)	Crayfish Bu		
Drift Deposits (B3		_	 Presence of I 	•	-			/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	t (B4)		Recent Iron F	Reduction i	in Tilled Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)	_	Thin Muck Su	urface (C7))		Geomorphi	c Position (D2)	
Inundation Visible	on Aerial Imaç	gery (B7)	Other (Explai	n in Rema	ırks)		Shallow Aq	uitard (D3)	
Sparsely Vegetate	ed Concave Su	rface (B8)	_				Microtopog	raphic Relief (D4)	
							FAC-Neutra	al Test (D5)	
Field Observations									
Field Observations: Surface Water Present	+2 Vo	s No X	Depth (inch	00).					
Water Table Present?	Yes								
Saturation Present?	Yes		_ · ·	· —		Wetland Hyd	Irology Present?	Yes	No X
(includes capillary fring		3NO _X	Depti (illeit		-	Welland Hyd	irology i resent:	103	140 <u>X</u>
(molades capillary ming									
Describe Recorded Da	ata (stream gau	ge, monitoring well	, aerial photos, p	revious in	spections), if a	vailable:			
Remarks:									
Remarks.									
<u> </u>									

ance Test worksheet: r of Dominant Species re OBL, FACW, or FAC: 1 (A) umber of Dominant s Across All Strata: 8 (B) t of Dominant Species re OBL, FACW, or FAC: 12.5 (A/B) ence Index worksheet: recies 0 x 1 = 0 species 0 x 2 = 0 recies 10 x 3 = 30 species 130 x 4 = 520 recies 0 x 5 = 0 rotals: 140 (A) solution x 3 = 30 revalence Index = B/A = solution x 3 = 30
tof Dominant Species
umber of Dominant s Across All Strata: 8 (B) t of Dominant Species e OBL, FACW, or FAC: 12.5 (A/B) ence Index worksheet: btal % Cover of: encies 0 x 1 = 0 species 0 x 2 = 0 encies 10 x 3 = 30 species 130 x 4 = 520 encies 0 x 5 = 0 n Totals: 140 (A) 550 (B) erevalence Index = B/A = 3.93
umber of Dominant s Across All Strata: 8 (B) t of Dominant Species re OBL, FACW, or FAC: 12.5 (A/B) ence Index worksheet: otal % Cover of: recies 0 x1 = 0 species 0 x2 = 0 recies 10 x3 = 30 species 130 x4 = 520 recies 0 x5 = 0 rotals: 140 (A) 550 (B) othytic Vegetation Indicators:
Across All Strata: ## Across All Strata:
Across All Strata: ## Across All Strata:
t of Dominant Species e OBL, FACW, or FAC: 12.5
rece lndex worksheet: total % Cover of: becies 0 x 1 = 0 species 0 x 2 = 0 ecies 10 x 3 = 30 species 130 x 4 = 520 ecies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence lndex = B/A = 3.93 chystic Vegetation Indicators:
rece lndex worksheet: total % Cover of: becies 0 x 1 = 0 species 0 x 2 = 0 ecies 10 x 3 = 30 species 130 x 4 = 520 ecies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence lndex = B/A = 3.93 chystic Vegetation Indicators:
tence Index worksheet: total % Cover of:
otal % Cover of: Multiply by: species 0 x 1 = 0 species 0 x 2 = 0 species 10 x 3 = 30 species 130 x 4 = 520 secies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence Index = B/A = 3.93 (B)
otal % Cover of: Multiply by: species 0 x 1 = 0 species 0 x 2 = 0 species 10 x 3 = 30 species 130 x 4 = 520 secies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence Index = B/A = 3.93 (B)
variable
species 0 x 2 = 0 ecies 10 x 3 = 30 species 130 x 4 = 520 ecies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence Index = B/A = 3.93
ecies 10 x 3 = 30 species 130 x 4 = 520 ecies 0 x 5 = 0 n Totals: 140 (A) 550 (B) revalence Index = B/A = 3.93
species $130 \times 4 = 520$ ecies $0 \times 5 = 0$ Totals: $140 \times 6 \times 550$ revalence Index = B/A = 3.93 Solytic Vegetation Indicators:
recies 0 $x = 5$ 0 0 0 0 0 0 0 0 0 0
Totals: 140 (A) 550 (B) Prevalence Index = B/A = 3.93
revalence Index = B/A = 3.93 phytic Vegetation Indicators:
ohytic Vegetation Indicators:
•
•
Rapid Test for Hydrophytic Vegetation
Dominance Test is >50%
Prevalence Index ≤3.01
Morphological Adaptations (Provide supporting
oblematic Hydrophytic Vegetation¹ (Explain)
ors of hydric soil and wetland hydrology must
ent, unless disturbed or problematic.
ions of Vegetation Strata
Noody plants 3 in. (7.6 cm) or more in diameter at
neight (DBH), regardless of height.
g/shrub - Woody plants less than 3 in. DBH and
than or equal to 3.28 ft (1 m) tall.
All herbaceous (non-woody) plants, regardless of
nd woody plants less than 3.28 ft tall.
vines - All woody vines greater than 3.28 ft in
hhutic
•
t? Yes NoX
phytic tion t? Ye

Depth	ription: (Describe to t Matrix			k Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	10YR 3/2	100	,				Silt loam	
4-18	10YR 4/4	100					Silt loam	
								
		·						
								
		<u> </u>						
_		-		- '				
		·						
Type: C=Cor	centration, D=Depletion	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Location	: PL=Pore Lining, M=Matrix.
lydric Soil II	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface (S8	8) (I RR R N	II RA 149		ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfa					airie Redox (A16) (LRR K, L, R)
Black His	. , ,		Loamy Mucky M			ושטדי		cky Peat or Peat (S3) (LRR K, L, R)
				. ,	(LIXIX IX, L)			
	n Sulfide (A4)		Loamy Gleyed N					face (S7) (LRR K, L)
	Layers (A5)	A 44\	Depleted Matrix					Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	Redox Dark Sur					Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					ganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ions (F8)				t Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							odic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Shal	llow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other (Ex	cplain in Remarks)
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed o	or problem	natic.	
Restrictive L	ayer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes NoX
Remarks:								

Project/Site:	19020 - Sou	uth Ripley	City/0	County:	Chautauqua (County	Sampling Date:	08/19/2020
Applicant/Owner:		Conr	nectGen LLC	-	•	ate: New York	Sampling Point:	097-1U
Investigator(s):		SPF	Section	on, Township, Ra			vn of Ripley	
Landform (hillslope, terrac	·			oncave, convex,	-	None		(%): 0
Subregion (LRR or MLRA)			\ Lat:		Long:			• •
Soil Map Unit Name:			Erie silt loam			NWI classification		
Are climatic / hydrologic co		typical for this	time of year? Yes	X No	(If no,	– explain in Remark	s.)	
, ,			significantly distu		``	cumstances" prese	,	(No
			naturally problem			ain any answers in		
SUMMARY OF FIND						•	•	
						to, important	ioutui oo, otoi	
Hydrophytic Vegetation	Present?	Yes X		Is the Sam	-	Vaa	No. V	
Hydric Soil Present?	10	Yes		within a W			NoX	_
Wetland Hydrology Pres	sent?	Yes	_ No <u>X</u>	if yes, optio	onal Wetland Site	: טו פ		_
Remarks: (Explain alter	native procedures h	nere or in a sepa	arate report.)					
, .	·	·	. ,					
HYDROLOGY								
Wetland Hydrology Inc								
Primary Indicators (mini	•	ed; check all tha	• • • • • • • • • • • • • • • • • • • •				ators (minimum of to	wo required)
Surface Water (A1	•		Water-Stained Leav	, ,			Cracks (B6)	
High Water Table (A2)	_	Aquatic Fauna (B13				atterns (B10)	
Saturation (A3)		_	Marl Deposits (B15)			Moss Trim L	` '	
Water Marks (B1)	(==)	_	Hydrogen Sulfide O				Water Table (C2)	
Sediment Deposits	` '	_	Oxidized Rhizosphe	-	ots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)			Presence of Reduce	` '			isible on Aerial Ima	
Algal Mat or Crust			Recent Iron Reducti		(C6)		Stressed Plants (D1)
Iron Deposits (B5)			Thin Muck Surface (Position (D2)	
_	on Aerial Imagery (E		Other (Explain in Re	marks)		Shallow Aqu		
Sparsely Vegetated	d Concave Surface	(B8)					aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations:								
Surface Water Present?	? Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X						
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hvd	rology Present?	Yes	No X
(includes capillary fringe					Wolland Hyd	rology i rocolic.		<u> </u>
(moradoo dapinary minge								
Describe Recorded Dat	a (stream gauge, m	onitoring well, a	aerial photos, previou	s inspections), if	available:			
Remarks:								
1								

Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0	ver	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B)
Absolute	ver	Species?	Status	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 5 (B)
Total Number of Dominant Species Species Across All Strata: 5 (B)				Species Across All Strata:5 (B)
Species Across All Strata: 5 (B) 3 4 5 6 6 7 7 7 7 7 7 7 7				Species Across All Strata:5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 (Art of BL)				
4.				Percent of Dominant Species
5. That Are OBL, FACW, or FAC: 60.0 (AVE				
Prevalence Index worksheet: Multiply by: Dispense Dispense				
Total Cover				Prevalence Index worksheet:
Sapiling/Shrub Stratum (Plot size: 15)	1	= Total Cov	er	Total % Cover of: Multiply by:
1.		10tai 55	21	
2 Comus racemosa / Gray dogwood 3 Pes FAC 4 FAC Uspecies 50 x 4 = 200 UPL species 0 x 5 = 0 Column Totals: 130 (A) 4440 (I Prevalence Index = B/A = 3.38 Hydrophytic Vegetation Indicators: 1 Solidago canadensis / Canada goldenrod 3 Pes FACU 2 Solidago rangosa / Wrinkle-leaf goldenrod 3 Pes FACU 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Foxide supporting) Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation (Foxide supporting) Problematic Hydrophy	ດ	Yes	FAC	FACW species 0 x 2 = 0
Same				
4.				FACU species 50 x 4 = 200
5. Column lotals: 130 (A) 440 (to Prevalence Index = B/A = 3.38		-		UPL species 0 x 5 = 0
6.				Column Totals: 130 (A) 440 (B)
Tree - Woody plants Ses than 3 in DBH and greater than or equal to 3.28 ft fall. Woody Vine Stratum (Plot size: 30 1 - Rapid Test for Hydrophytic Vegetation Mydrophytic Vegetation Myd				Prevalence Index = B/A = 3.38
Herb Stratum (Plot size: 5 50 = Total Cover 1. Solidago canadensis / Canada goldenrod 30 Yes FACU 2. Solidago rugosa / Wrinkle-leaf goldenrod 30 Yes FACU 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1. Solidago rugosa / Wrinkle-leaf goldenrod 30 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) 1. Solidago rugosa / Wrinkle-leaf goldenrod 30 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) 1. Solidago rugosa / Wrinkle-leaf goldenrod 30 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Strata 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Hydrophytic Veg		-	-	
Herb Stratum (Plot size:	<u>σ</u>	= Total Cove	er	
1. Solidago canadensis / Canada goldenrod 2. Solidago rugosa / Wrinkle-leaf goldenrod 3. Fragaria virginiana / Mountain strawberry 4. Solidago rugosa / Wrinkle-leaf goldenrod 4. Solidago rugosa / Wrinkle-leaf goldenrod 5. Solidago rugosa / Wrinkle-leaf goldenrod 6. Solidago rugosa / Wrinkle-leaf goldenrod 7. Solidago rugosa / Wrinkle-leaf goldenrod 8. Solidago rugosa / Wrinkle-leaf goldenrod 9. Solidago rugosa / Wrinkle-leaf goldenrod 10. Solidago rugosa / Wrinkle-leaf goldenrod 10. Solidago rugosa / Wrinkle-leaf goldenrod 10. Solidago rugosa / Wrinkle-leaf goldenrod 11. Solidago rugosa / Wrinkle-leaf goldenrod 12. Solidago rugosa / Wrinkle-leaf goldenrod 13. September 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 11. Solidago rugosa / Wrinkle-leaf goldenrod 13. September 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 11. Solidago rugosa / Wrinkle-leaf goldenrod 13. September 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 11. Solidago rugosa / Wrinkle-leaf goldenrod 13. September 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 11. Solidago rugosa / Wrinkle-leaf goldenrod 13. September 14. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 11. Solidago rugosa / 4. Morphological Adaptations (Provide supporting 14. Morphological Adaptations (Provide supporting 14. Solidago Adaptations (Provide supporting 14. Solidago Adaptations (Provide supporting 14. Solidago Adaptations (Provide supporting 14. Morphological Adaptations (Provide supporting 14. Solidago Adaptations (Prov		= ·		
2. Solidago rugosa / Wrinkle-leaf goldenrod 3. Fragaria virginiana / Mountain strawberry 2. Yes FACU 4. Problematic Hydrophytic Vegetation (Explain) 7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. Definitions of Vegetation Strata 10. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 14. Woody Vine Stratum (Plot size: 30) 15. Woody vines - All woody vines greater than 3.28 ft in height. 16. Woody vines - All woody vines greater than 3.28 ft in height. 17. Woody vines - All woody vines greater than 3.28 ft in height. 18. Definitions of Vegetation Strata 19. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 19. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 19. Woody vines - All woody vines greater than 3.28 ft in height. 19. Woody vines - All woody vines greater than 3.28 ft in height.	0	Yes	FACU	
3. Fragaria virginiana / Mountain strawberry 4.				
4	_			
5.				Problematic Hydrophytic Vegetation¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Position Position Position		-		
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of non-woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation		-		
8				be present, unless disturbed or problematic.
9.				D. C. Marine and Marine Odmode
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation				Definitions of vegetation Strata
11			- ——	The state of the s
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.				
Woody Vine Stratum (Plot size:30) 1				
Woody Vine Stratum (Plot size: 30) 1.		= Total Cov		
2. Woody vines - All woody vines greater than 3.28 ft in height. 4. O = Total Cover Hydrophytic Vegetation		_ = 10161 001	2 1	Herb - All herbaceous (non-woody) plants, regardless of
3				size, and woody plants less than 3.28 ft tall.
3				
0 = Total Cover Hydrophytic Vegetation				height.
Vegetation		- 		
		= Total Cove	er	
Present? Yes a ind				_
				Present? Yes No
Remarks: (Explain alternative procedures here or in a separate report.)			Yes Total Cove Yes Yes Yes Yes Total Cove Total Cove Total Cove	Yes FAC Total Cover Yes FACU Yes FACU Yes FACU Yes FACU Total Cover Total Cover Total Cover

SOIL Sampling Point: 097-1U

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remar	ks	
0-18	10yr 4/3	95	7.5yr 4/6	5	С	М	Clay Loam				
	. <u> </u>										
	·										
	· 										
	· 										
Tuna. C-Car		- DM-Dadi	and Matrix MC-Mad				21 000	tion: DI -D	ara Linina N		
Type: C=Cor	ncentration, D=Depletio	n, RIVI=Redu	ced Matrix, MS=Masi	ked Sand Gra	ains.			ation: PL=P	ore Lining, N	/I=IVIatrix.	
lydric Soil I	ndicators:						Indicators	s for Probl	ematic Hydi	ric Soils³:	
Histosol	(A1)		Polyvalue Belov	v Surface (S8	3) (LRR R,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L	, MLRA 14	9B)
Histic Ep	oipedon (A2)		Thin Dark Surfa			(149B)			edox (A16)		
Black Hi	stic (A3)		Loamy Mucky M	lineral (F1) (LRR K, L)		5 cm	Mucky Pea	at or Peat (S	3) (LRR K ,	, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark	Surface (S	7) (LRR K,	L)	
	d Layers (A5)		Depleted Matrix						Surface (S		, L)
	d Below Dark Surface (A	A11)	Redox Dark Sur						ce (S9) (LR		
	ark Surface (A12)		Depleted Dark S					-	Masses (F1		
	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F		
	Gleyed Matrix (S4)								A6) (MLRA	، 144A, 145	5, 149B)
	Redox (S5)							Parent Mat		TE40\	
	Matrix (S6)	DA 440D\							ark Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Othe	r (Explain ii	n Remarks)		
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.				
Postrictivo I	.ayer (if observed):										
Type:	ayer (ii observeu).										
Depth (in	ches):						Hydric Soil P	resent?	Yes	No	X
							,				
Remarks:											

Project/Site:	19020 - South Riple	V	City/County:	Chautauqua	County	Sampling Date:	08/19/2020
Applicant/Owner:	·	ConnectGen LLC	· · · —		State: New York		097-1W
Investigator(s):	JK, SPF		Section, Township		-	vn of Ripley	
Landform (hillslope, terrac	•	Local r	elief (concave, con		None		(%): 0
): LRR R MLRA		42.194396				· ·
Soil Map Unit Name:		Erie silt loam			NWI classification		
·	onditions on the site typical	for this time of year?	Yes X	No (If no	— o, explain in Remark	s.)	
, ,	Soil, or Hydrolog	•		Are "Normal Ci	ircumstances" prese	nt? Yes X	. No
	Soil , or Hydrolog				plain any answers in		
	INGS - Attach site m				•	•	
					oto, important	ioutui oo, otoi	
Hydrophytic Vegetation	-	X No		Sampled Area	Vaa V	No	
Hydric Soil Present?	Yes _			a Wetland?	Yes X		_
Wetland Hydrology Pres	sent? Yes _	No	_ ii yes,	optional Wetland Si	ille ID:	097-1W PEM	-
Remarks: (Explain alter	native procedures here or ir	n a separate report.)					
	•	. ,					
HYDROLOGY							
Wetland Hydrology Inc							
	mum of one required; check	11.77				ators (minimum of to	wo required)
Surface Water (A1)	•		d Leaves (B9)			Cracks (B6)	
High Water Table (A2)	Aquatic Faur				atterns (B10)	
Saturation (A3)		Marl Deposit			Moss Trim L	` '	
Water Marks (B1)			Ifide Odor (C1)			Water Table (C2)	
Sediment Deposits	` '		zospheres on Living	g Roots (C3)	Crayfish Bu	` '	
Drift Deposits (B3)			Reduced Iron (C4)			isible on Aerial Ima	
Algal Mat or Crust			Reduction in Tilled S	Soils (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck S				Position (D2)	
	on Aerial Imagery (B7)	Other (Explain	n in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetated	d Concave Surface (B8)					aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations:							
Surface Water Present?	Yes No	X Depth (inch	es).				
Water Table Present?	Yes No			-			
Saturation Present?	Yes No	· ·		Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe		Depti (inci		_ Wetland Hy	arology r resent:	1C3X	
(molades capillary minge	· <i>)</i>						
Describe Recorded Data	a (stream gauge, monitoring	g well, aerial photos, p	previous inspections	s), if available:			
Remarks:							

Total Number of Dominant Species Status Total Number of Dominant Species Across All Strata: 4 (E	VEGETATION - Use scientific names of plants.				Sampling Point:097-1W
Total Number of Dominant Species Across All Strata: 4 (E Species Across All Strata: 5 Species Across Across Across All Strata: 5 Species Across Across Across Across Across All Strata: 5 Species Across Across Across Across Across Across Across Across Across Ac	Tree Stratum (Plot size: 30)				Number of Dominant Species
Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 (£ 6.6	1				
20	4				·
Vibumum dentatum Southern arrow-wood 20 Yes FAC FAC FAC Species 0 x 2 = 0 FAC Species 55 x 3 = 165 FAC Species 50 x 5 = 0 Table Species 50 Table					
6. Column lotals: 12.5 (A) 295 6. Prevalence Index = B/A = 2.36 7. Herb Stratum (Plot size: 5) 1. Solidago canadensis / Canada goldenrod 20 Yes FACU 3. Carax vulpinoidea / Fox sedge, Brown fox sedge 20 Yes OBL 4. Juncus effusus / Common bog rush, Soft or lamp rush 15 No OBL 5. Euthamia graminifolia / Flat-top goldentop 15 No BL 6. Scirpus cyperinus / Woolgrass 15 No OBL 7. Aster / Aster 15 No OBL 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Viburnum dentatum / Southern arrow-wood Southern arrow-wood Southern arrow-wood				FACW species 0 x 2 = 0 FAC species 55 x 3 = 165 FACU species 20 x 4 = 80 UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 5 5 5 5 5 5 5 5 5	5.				````
1. Solidago canadensis / Canada goldenrod 2. Solidago rugosa / Wrinkle-leaf goldenrod 2. Solidago rugosa / Wr			= Total Cov	rer	1 - Rapid Test for Hydrophytic Vegetation
2. Solidago rugosa / Wrinkle-lear goldenrod 2. O Yes FAC 3. Carex vulpinoidea / Fox sedge, Brown fox sedge 4. Juncus effusus / Common bog rush, Soft or lamp rush 5. Euthamia graminifolia / Flat-top goldentop 6. Scirpus cyperinus / Woolgrass 7. Aster / Aster 8.	Solidago canadensis / Canada goldenrod	20	Yes	FACU	
3. Carex vulpinoidea / Fox sedge, Brown tox sedge 4. Juncus effusus / Common bog rush, Soft or lamp rush 5. Euthamia graminifolia / Flat-top goldentop 6. Scirpus cyperinus / Woolgrass 7. Aster / Aster 8. 9. 15 No 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	2. Solidago rugosa / Wrinkle-leaf goldenrod	20	Yes	FAC	
5. Euthamia graminifolia / Flat-top goldentop 15 No FAC 6. Scirpus cyperinus / Woolgrass 15 No OBL 7. Aster / Aster 15 No OBL 8	3. Carex vulpinoidea / Fox sedge, Brown fox sedge	20	Yes	OBL	1 -
6. Scirpus cyperinus / Woolgrass 7. Aster / Aster 8.	4. Juncus effusus / Common bog rush, Soft or lamp rush	15	No	OBL	Froblematic Hydrophytic Vegetation (Explain)
be present, unless disturbed or problematic. Aster / Aster Aster Aster	5. Euthamia graminifolia / Flat-top goldentop	15	No	FAC	Undicators of hydric soil and watland hydrology must
7. Aster / Aster 8.	6. Scirpus cyperinus / Woolgrass	15	No	OBL	1
9.	7. Aster / Aster	15	No		be present, unless disturbed of problematic.
9.	8.				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O					
11	10				Tree - Woody plants 3 in (7.6 cm) or more in diameter at
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) Herb - All herbaceous (non-woody) plants, regardless or size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					
Woody Vine Stratum (Plot size: 30) 1.	12.				Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
3. height. 1. O = Total Cover Hydrophytic Vegetation			_		Herb - All herbaceous (non-woody) plants, regardless of
0 = Total Cover Hydrophytic Vegetation	3.				
	4	0	= Total Cov	er	
Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separat	e report.)			

SOIL Sampling Point: 097-1W

Depth	ription: (Describe to the Matrix			r Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-18	10yr 4/2	80	7.5yr 4/6	20	С	PL,M	Clay Loam			
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ked Sand Gra	ains.		²Loca	ation: PL=F	ore Lining, M=I	Matrix.
Hydric Soil I									ematic Hydric	
Histosol	` '		Polyvalue Belov)) (LRR K, L, N	-
	oipedon (A2)		Thin Dark Surfa						edox (A16) (LF	
	stic (A3)		Loamy Mucky M		LRR K, L)				at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N					-	(17) (LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Poly	/alue Belov	v Surface (S8)	(LRR K, L)
Depleted	d Below Dark Surface (A	A11)	Redox Dark Sur	face (F6)			Thin	Dark Surfa	ce (S9) (LRR	K, L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-	Manganese	e Masses (F12)	(LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depressi	ions (F8)			Piedr	mont Flood	plain Soils (F19	9) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesi	c Spodic (1	A6) (MLRA 14	44A, 145, 149B)
Sandy R	Redox (S5)						Red	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain i	n Remarks)	
³ Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	d or problem	atic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Ripley	City/Co	ounty: Chauta	auqua County	Sampling Date: 08/25/2020
Applicant/Owner:	(ConnectGen LLC	-	State: New York	Sampling Point: 098-1U
Investigator(s):	JAM JLD	Section	n, Township, Range:	Tov	vn of Ripley
Landform (hillslope, terrace,	etc): Flat	Local relief (co	ncave, convex, none):	None	Slope (%): 0-3
Subregion (LRR or MLRA):	LRR R MLRA 139) Lat: 4	2.19187774 Lor	ng: -79.727904	Datum: NAD 83
Soil Map Unit Name:		Erie Silt Loam		NWI classification	on:
Are climatic / hydrologic con	ditions on the site typical for	this time of year? Yes _	X No	(If no, explain in Remark	s.)
Are Vegetation, S	Soil, or Hydrology	significantly disturb	ped? Are "Norm	nal Circumstances" prese	nt? Yes X No
Are Vegetation, S	Soil, or Hydrology	naturally problema	tic? (If needed	d, explain any answers in	Remarks.)
SUMMARY OF FINDI	NGS - Attach site map	showing sampling	point locations, tra	ansects, important	features, etc.
Hydrophytic Vegetation P	resent? Yes	No X	Is the Sampled Area	a	
Hydric Soil Present?	Yes	X No	within a Wetland?		NoX
Wetland Hydrology Prese	ent? Yes	No X	If yes, optional Wetla	· · · · · · · · · · · · · · · · · · ·	_
,				·	
Remarks: (Explain alterna	ative procedures here or in a	separate report.)			
HYDROLOGY					
Wetland Hydrology Indi	cators:				
"	um of one required; check a	Il that apply)		Secondary Indica	itors (minimum of two required)
Surface Water (A1)	am or one required, errock a	Water-Stained Leave	s (B9)		Cracks (B6)
High Water Table (A	2)	Aquatic Fauna (B13)	` '		atterns (B10)
Saturation (A3)	,	Marl Deposits (B15)		Moss Trim L	
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)		Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots (C3)	Crayfish Bu	
Drift Deposits (B3)	,	Presence of Reduced			isible on Aerial Imagery (C9)
Algal Mat or Crust (E	34)	Recent Iron Reductio	n in Tilled Soils (C6)		Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck Surface (0	27)	Geomorphic	Position (D2)
Inundation Visible or	n Aerial Imagery (B7)	Other (Explain in Rer	narks)	Shallow Aqu	uitard (D3)
Sparsely Vegetated	Concave Surface (B8)			Microtopogr	aphic Relief (D4)
				FAC-Neutra	Test (D5)
F: 1101 (1					
Field Observations:	Voe Ne	V Donth (inches)			
Surface Water Present?		X Depth (inches): X Depth (inches):			
Water Table Present? Saturation Present?		X Depth (inches):	Wotlan	d Hydrology Procent?	Yes No X
(includes capillary fringe)	res NO	Deptil (iliches).	wellan	d Hydrology Present?	Yes NoX
(includes capillary infige)					
Describe Recorded Data	(stream gauge, monitoring w	ell, aerial photos, previous	inspections), if available:		
Remarks:					

/EGETATION - Use scientific names of plants.				Sampling Point: 098-1U
				Dominance Test worksheet:
				Number of Dominant Species
Tron Chrohim (Diet sire)	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size:) 1.	%Cover	Species?	Status	Total Number of Deminent
0		_		Total Number of Dominant
				Species Across All Strata: 3 (B)
1				Dersont of Deminant Species
				Percent of Dominant Species That Are ORL FACW or FAC: 0.0 (A/R)
•				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.			-	Prevalence Index worksheet:
7	0	- Total Car		Total % Cover of: Multiply by:
Conling/Chruh Stratum (Diet eize: 15		_ = Total Cov	ei	OBL species 0 $x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15) 1. Trifolium repens / White clover	40	Voc	FACU	FACW species 0 x 2 = 0
Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	10	Yes Yes	FACU	FAC species 0 x 3 = 0
	10		FACU	FACU species 110 x 4 = 440
3.			-	UPL species 0 x 5 = 0
4				Column Totals: 110 (A) 440 (B)
5.				Prevalence Index = B/A = 4.0
6.		_		Trevalence index B/A = 4.0
7		- 	_ ,	Hydrophytic Vegetation Indicators:
	50	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
Trifolium pratense / Red clover	60	Yes	FACU	3 - Prevalence Index ≤3.0¹
2.				4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				25 process, amood dictarged or programmation
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	60	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:) 1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.			-	Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4.				g
	0	= Total Cov	er	Hydrophytic
	-	_		Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 098-1U

(Inches) Color (mois) \$, Color (mois) \$, Type Loc* Toxture Remarks	Depth	iption: (Describe to th Matrix			Features				,	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. # Location: PL=Pore Lining, M=Matrix. # Hydric Soil Indicators: Histosol (A1)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
Indicators for Problematic Hydric Soils ² : Histosol (A1)	0-18	10 yr 5/3	95	7.5yr 6/6	5	C	M	Silt loam		
ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Jeffic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sendy Mucky Mineral (S1) Redox Dark Surface (F6) Thin Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bright Scil Present? Yes X No Hydric Soil Present? Yes X No										
Addric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S6) Dark Surface (S7) Sandy Redox (S6) Sandy Redox (S7) Sandy Redox (S7)										
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Thin Dark Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Bestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No					·					
ydric Soil Indicators: Histosol (A1) Histo Epipedon (A2) Thin Dark Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Dark Surface (S7) Redox Depressions (F8) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Dark Surface (S7) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Hydric Soil Present? YesX No										
Indicators for Problematic Hydric Soils*: Histosol (A1)										
Histosol (A1)										
Histosol (A1)					·					
Histosol (A1)					· ——			-	-	
Histosol (A1)										
Histosol (A1)	Type: C=Con	centration, D=Depletion	n, RM=Reduc	ed Matrix, MS=Mask	ed Sand Gra	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.	
Histosol (A1)	Ludria Sail Ir	ndicators:								
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Fick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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	-			Polygoluo Polog	, Surface (SS) (I DD D	MI DA 1401		· · · · · · · · · · · · · · · · · · ·	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) X Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			=							
Hydrogen Sulfide (A4)			-				(1430)			
Stratified Layers (A5)			-			LIXIX IX, L)			• • • • • • • • • • • • • • • • • • • •	., _, .,
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			=							(1)
Thick Dark Surface (A12)		• •	-							., –,
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Other (Explain in Remarks) 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		· ·	···,							K. L. R)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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			-						• • • • • • • • • • • • • • • • • • • •	
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 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		, ,	_		,					
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators 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										•
Dark Surface (S7) (LRR R, MLRA 149B) Plandicators 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										
Restrictive Layer (if observed): Type:	Dark Sur	face (S7) (LRR R, ML	RA 149B)							
Restrictive Layer (if observed): Type:										
Type:	Indicators of	nydropnytic vegetation	and wetland i	nydrology must be pr	resent, unies	s disturbed	or problem	atic.		
Depth (inches): Hydric Soil Present? Yes X No		ayer (if observed):								
								Under Oalt D		
Remarks:	Depth (inc	cnes):						Hydric Soil P	resent? Yes X No	
	Remarks:									

Project/Site:	19020 - So	outh Ripley	City	y/County:	Chautauqua (County	Sampling Date:	08/19/2020
Applicant/Owner:			ectGen LLC	, , <u> </u>	•	ate: New York		098-1W
Investigator(s):		(,SPF		ction, Township, Ra			wn of Ripley	
Landform (hillslope, terrad		•		(concave, convex,		Concave		(%): 5-8
Subregion (LRR or MLRA			Lat:	42.19104263	Long:	-79.713742		` '
Soil Map Unit Name:			angford silt loam			NWI classification		PFO
Are climatic / hydrologic o				s X No	(If no	explain in Remark		
, ,	, Soil, or		•		`	cumstances" prese	,	No
	, Soil , or					ain any answers in		
SUMMARY OF FINE						•	·	
					·	its, important	ieatures, etc.	
Hydrophytic Vegetation	Present?	Yes X	_ No		pled Area			
Hydric Soil Present?	_	Yes X		within a W		Yes X		_
Wetland Hydrology Pre	sent?	Yes X	_ No	If yes, option	onal Wetland Site	e ID:	098-1W PFO	
Remarks: (Explain alte	rnative procedures	here or in a sena	arate report)	<u> </u>				
rtomanto. (Explain alto	mativo procedures	noro or ar a cope	arato roporti,					
HYDROLOGY								
Wetland Hydrology In	dicators:							
Primary Indicators (min	imum of one requir	ed; check all tha	t apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (A1	1)	<u>X</u>	Water-Stained Lea	aves (B9)		Surface Soi	l Cracks (B6)	
High Water Table	(A2)		Aquatic Fauna (B	13)		X Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B1	5)		Moss Trim L	ines (B16)	
Water Marks (B1)			Hydrogen Sulfide	Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)		Oxidized Rhizosp	heres on Living Ro	ots (C3)	Crayfish Bu		
Drift Deposits (B3))		Presence of Redu	iced Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)		Recent Iron Redu	ction in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D1	1)
Iron Deposits (B5))		Thin Muck Surface	e (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery ((B7)	Other (Explain in I	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	ed Concave Surface	e (B8)				X Microtopogr	aphic Relief (D4)	
						X FAC-Neutra	l Test (D5)	
F: 1101								
Field Observations:	0	N- V	Double (in the ca)					
Surface Water Present			_ ' ' '					
Water Table Present?	Yes	NoX	- ' ' '		\A/-41		V V	NI-
Saturation Present?	Yes	NoX	Depth (inches):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	e)							
Describe Recorded Da	ta (stream gauge in	monitoring well a	erial photos, previo	ous inspections) if	available:			
Booonibo recordod Ba	ta (otroain gaago, n	normorning won, c	ionai priotos, provi	odo mopodiono), n	availabio.			
Remarks:								

Symphyotrichum prenanthoides / Crooked-stem american-as 30 Yes FAC X 2 - Dominance Test is >50	Species 7, or FAC: 6 (A) inant rata: 7 (B) Species 7, or FAC: 85.7 (A/B) orksheet: 6 Multiply by: 0 x 1 = 0	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species	Status			
Absolute Dominant Indicator Statum Plot size: 30	7, or FAC: 6 (A) inant rata: 7 (B) Species 7, or FAC: 85.7 (A/B) orksheet: f: Multiply by: 0 x 1 = 0	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species	Status			
Tree Stratum (Plot size: 30 %Cover Species? Status 1. Frazinius gennsylvanica (Green ash 50 Yes FACW Species Across All Strata:	inant rata: 7 (B) Species , or FAC: 85.7 (A/B) prksheet: f: Multiply by: 0 x 1 = 0	Total Number of Dominant Species Across All Strata: Percent of Dominant Species	Status			
1. Fraxinus pennsylvanica / Green ash 50 Yes FACW 2. Acer rubrum / Red maple 10 No FAC Species Across All Strata: 3. Percent of Dominant Species That Are OBL, FACW, or FAC: FACW	rata: 7 (B) Species 7, or FAC: 85.7 (A/B) prksheet: f: Multiply by: 0 x 1 = 0	Species Across All Strata: Percent of Dominant Species		Dominant	Absolute	
2. Acer rubrum / Red maple	rata: 7 (B) Species 7, or FAC: 85.7 (A/B) prksheet: f: Multiply by: 0 x 1 = 0	Species Across All Strata: Percent of Dominant Species	FACW	Species?	%Cover	Tree Stratum (Plot size:)
3.	Species 7, or FAC: 85.7 (A/B) Orksheet: 6. Multiply by: 7. 0 x 1 = 0	Percent of Dominant Species		Yes	50	1. Fraxinus pennsylvanica / Green ash
4	y, or FAC: 85.7 (A/B) orksheet: f: Multiply by: 0 x 1 = 0	·	FAC	No	10	2. Acer rubrum / Red maple
That Are OBL, FACW, or FAC: 6.	y, or FAC: 85.7 (A/B) orksheet: f: Multiply by: 0 x 1 = 0	·		_		3
6.	prksheet: f:	That Are OBL, FACW, or FAC:		-		4
Prevalence Index worksheet: Total Cover	f: Multiply by: $x = 0$					_
Total % Cover of: Sapling/Shrub Stratum (Plot size: 15)	f: Multiply by: $x = 0$	5				6
Sapling/Shrub Stratum	0 x 1 = 0			_		7
Lindera benzoin / Northern spicebush 15 Yes FACW			er	_ = Total Cov	60	
FAC species 40		· —				
3.						
Second Stratum Continue Column Totals 185			FACU			
Column Totals: 185					_	3
Prevalence Index = BIA = Prevalence Index =						
7.					_	
Berb Stratum (Plot size: 5 1 1 - Rapid Test for Hydrophytic Vegetation Indices 2 - Dominance Test is >50.	EX - B/A - 2.32	Frevalence index = B/A =				6
Herb Stratum (Plot size: 5 1 - Rapid Test for Hydroph X 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptati Problematic Hydrophytic V 4 - Morphological Adaptati Problematic Hydrophytic V 4 - Morphological Adaptati Problematic Hydrophytic V 1 - Rapid Test for Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptati Problematic Hydrophytic V 4 - Morphological Adaptati Problematic Hydrophytic V 1 - Rapid Test for Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptati Problematic Hydrophytic V 1 - Rapid Test for Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptati Problematic Hydrophytic V 1 - Rapid Test for Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati A - Morphological Adaptati Problematic Hydrophytic V 2 - Dominance Test is >50 X 3 - Prevalence Index ≤3.0¹ A - Morphological Adaptati A - Morphological Adaptati Problematic Hydrophytic V A - Morphological Adaptati Problematic Hydrophytic V A - Morphological Adaptati A - Morphological Ad	tion Indicators:	Hydrophytic Vegetation Indica				7
Tree - Woody Vine Stratum (Plot size:		1 - Rapid Test for Hydrophy	er	_ = Total Cov	25	
2. Onoclea sensibilis / Sensitive fern 3. Geum laciniatum / Rough avens 4. Impatiens capensis / Spotted jewelweed 5. 6. 7. 8. 9. 10. 11. 12. 12. 12. 10. 10. 11. 12. 12. 10. 10. 11. 12. 12. 10. 10. 11. 12. 12. 10. 10. 11. 12. 12. 10. 10. 11. 12. 10. 10. 11. 12. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	• • •	X 2 - Dominance Test is >50%		.,		
2. Onoclea sensibilis / Sensitive fern 3. Geum laciniatum / Rough avens 4. Impatiens capensis / Spotted jewelweed 5. 6. 7. 8. 9. 10. 11. 12. 12. 12. 12. 12. 13. 10. 15. 10. 11. 12. 12. 12. 10. 10. 11. 12. 12. 12. 12. 13. 10. 10. 11. 12. 12. 12. 10. 10. 11. 12. 12. 12. 10. 10. 11. 10. 11. 10. 11. 10. 10. 11. 10. 10	ndex ≤3.0¹	X 3 - Prevalence Index ≤3.0¹				
3. Geum laciniatum / Rough avens 4. Impatiens capensis / Spotted jewelweed 5. 6. 7. 8. 9. 10. 11. 12. 12. 12. 12. 13. 14. 15. 15. 15. 15. 16. 16. 17. 16. 17. 17. 17. 17. 17. 18. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	l Adaptations (Provide supporting					
5. 6. 7. 8. 9. 10. 11. 12. 12. 12. 130 1 Tree - Woody Vine Stratum (Plot size: 30) 1. 2. Woody Vine Stratum (Plot size: 30) 1. 2. Woody vines - All woody	rophytic Vegetation¹ (Explain)					
6. Thicketors of hydric soil and we be present, unless disturbed or separate problems. 8. Definitions of Vegetation Stratum. 10. Tree - Woody plants 3 in. (7.6 or breast height (DBH), regardless greater than or equal to 3.28 ft. Woody Vine Stratum. (Plot size: 30) 1. Sapling/shrub - Woody plants greater than or equal to 3.28 ft. Herb - All herbaceous (non-worsize, and woody plants less than size, and woody vines - All woody vines.)			FACW	Yes		
be present, unless disturbed or Definitions of Vegetation Strates Tree - Woody plants 3 in. (7.6 of breast height (DBH), regardless Sapling/shrub - Woody plants greater than or equal to 3.28 ft Herb - All herbaceous (non-wo size, and woody plants less that and woody vines - All woody vines - Al	oil and wetland hydrology must	¹ Indicators of hydric soil and wet				^
8. Definitions of Vegetation Stra 9. Tree - Woody plants 3 in. (7.6 of breast height (DBH), regardless 12. Sapling/shrub - Woody plants 12. Sapling/shrub - Woody plants 13. Greater than or equal to 3.28 ft 14. Herb - All herbaceous (non-woody size, and woody plants less than 2. Woody vines - All woody vines - All woody vines.	sturbed or problematic.	be present, unless disturbed or p				-
9. 10. 11. 12. Sapling/shrub - Woody plants 3 in. (7.6 or greater than or equal to 3.28 ft Herb - All herbaceous (non-worsize, and woody plants less than 2. Woody vines - All	·					1
Tree - Woody plants 3 in. (7.6 c breast height (DBH), regardless 12	ation Strata	Definitions of Vegetation Strat				
11			-			-
12	3 in. (7.6 cm) or more in diameter at				-	10.
Woody Vine Stratum (Plot size: 30)			-			
Woody Vine Stratum (Plot size:30) Herb - All herbaceous (non-wo-size, and woody plants less that				- Total Cov		12.
1 size, and woody plants less tha 2 Woody vines - All woody vines			еі	_ = 10tal Cov	100	Woody Vino Stratum (Plot size: 30)
2 Woody vines - All woody vines						
5	oody vines greater than 3.28 ft in			- ·		2.
4.		neight.				J
0 = Total Cover Hydrophytic		Hydrophytic		- Total Cov		T
Vegetation			Ci	_ = 10(a) COV		
	Yes X No	_				
11636Ht: 103	163 <u>X</u> 140	Tresent: 1cs X				

SOIL Sampling Point: 098-1W

Depth	ription: (Describe to the Matrix			x Features	Jonnin	455011		,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-9	10yr 3/2	100					Silt loam			
9-18	10yr 5/2	80	10yr 5/8	20	С	М	Clay loam			
	- <u></u>									
	- <u></u>									
	 									
Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils ³ :
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 1491) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LF	•
	istic (A3)		Loamy Mucky N			,			at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed		,, - /				(CC) (CRR K, L)	
	d Layers (A5)		X Depleted Matrix					-	v Surface (S8)	
	d Below Dark Surface (A	Δ11)	Redox Dark Su						ce (S9) (LRR	
	ark Surface (A12)	,	Depleted Dark							(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depress					ū	, ,	9) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depices	10113 (1 0)						44A, 145, 149B)
	Redox (S5)								erial (F21)	TTA, 140, 140D)
	Matrix (S6)								ark Surface (TF	:12\
	rface (S7) (LRR R, ML	DA 140D)							n Remarks)	12)
Dark Su	mace (S7) (LKK K, WL	.KA 149D)					Other	(Explain ii	ii Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
Postrictivo I	_ayer (if observed):									
	ayer (ii observeu).									
Type: Depth (in	ichee).						Hydric Soil P	rocont?	Yes X	No
Deptii (iii							nyunc 3011 F	ieseiit i	162 7	No
Remarks:										

Project/Site:	19020 - South Ri	pley	City/County:	Chautauqua	County	Sampling Date:	08/25/2020
Applicant/Owner:		. ,	- · · 	·	State: New York		0982W
Investigator(s):	JAM JLD		Section, Township		-	own of Ripley	
Landform (hillslope, terrace			relief (concave, conv		None	Slope	: (%):
Subregion (LRR or MLRA)							
Soil Map Unit Name:		Ashville silt lo			NWI classificati		PEM
Are climatic / hydrologic co	onditions on the site typic			No (If no	o, explain in Remar		
Are Vegetation ,	**	•	ntly disturbed?		ircumstances" pres	•	No X
Are Vegetation ,		logynaturally	•		olain any answers ir		
SUMMARY OF FIND					•	•	
Hydrophytic Vegetation		· ·	· • •	Sampled Area	, p		
Hydric Soil Present?	Yes			a Wetland?	Yes X	No	
Wetland Hydrology Pres				a wetland? optional Wetland Si		098	_
Welland Hydrology Fres	Citt: 168	<u> </u>	II yes, t	optional Wetland Si		090	_
Remarks: (Explain alterr Soils appe	native procedures here c ared to have been tilled i						
HYDROLOGY							
Wetland Hydrology Inc	licators:						
Primary Indicators (mini		eck all that apply)			Secondary Indic	ators (minimum of t	wo required)
Surface Water (A1)			ed Leaves (B9)			il Cracks (B6)	1/
High Water Table (A	A2)	Aquatic Fau	ına (B13)		Drainage P	atterns (B10)	
Saturation (A3)		Marl Depos				Lines (B16)	
Water Marks (B1)		Hydrogen S	Sulfide Odor (C1)		Dry-Season	n Water Table (C2)	
Sediment Deposits	(B2)	X Oxidized RI	nizospheres on Living	Roots (C3)	Crayfish Bu	urrows (C8)	
Drift Deposits (B3)		Presence o	f Reduced Iron (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crust	(B4)	Recent Iron	Reduction in Tilled S	Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5)		Thin Muck	Surface (C7)		Geomorphi	ic Position (D2)	
Inundation Visible of	on Aerial Imagery (B7)	Other (Expl	ain in Remarks)		Shallow Aq	uitard (D3)	
Sparsely Vegetated	d Concave Surface (B8)				Microtopog	raphic Relief (D4)	
					X FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes I	No X Depth (inc	hes).				
Water Table Present?		No X Depth (inc		_			
Saturation Present?		No X Depth (inc	· ———	Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe				_		.00	
(<u></u>						
Describe Recorded Data	a (stream gauge, monito	ring well, aerial photos,	previous inspections	s), if available:			
Remarks:							
remarks.							
<u> </u>							

0			Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant 1 (B) Percent of Dominant Species 1 (B) Percent of Dominant Species 1 (B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0
0	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0 OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	Species? = Total Cove	Status	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0 OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		Total Number of Dominant 1 (B) Percent of Dominant Species 1 (A/B) That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		Species Across All Strata: 1 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove	r	Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
0	= Total Cove		Total % Cover of: Multiply by: OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
	· 		OBL species 105 x 1 = 105 FACW species 0 x 2 = 0
			FACW species 0 x 2 = 0
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: (A) (B)
			Prevalence Index = B/A = 1.0
0	= Total Cove	r	Hydrophytic Vegetation Indicators:
	-		X 1 - Rapid Test for Hydrophytic Vegetation
75	Yes	OBL	X 2 - Dominance Test is >50%
			X 3 - Prevalence Index ≤3.0¹
			4 - Morphological Adaptations (Provide supporting
			Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	. ———		breast height (DBH), regardless of height.
05	- Total Cava		Sapling/shrub - Woody plants less than 3 in. DBH and
05	_ = Total Cove	1	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
	. ———		Woody vines - All woody vines greater than 3.28 ft in
			height.
	T-1-1 O		Hudranbutia
0	= Total Cove	ľ	Hydrophytic
			Vegetation
			Present? Yes X No
		20 No 10 No 10 No 105 = Total Cove	No OBL No OBL No OBL Total Cover Total Cover

SOIL Sampling Point: 098–2W

Profile Desc Depth	ription: (Describe to th Matrix	e depth ne		e indicator Features	or confirm	the absen	ce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10yr 4/1	60	7.5 yr 5/6	15	C	PL,M	Loam	
0-18			N 4/	35		M	Loam	
								_
	·							
	·			· ——				
-	·			· ——				
-	-							
				- ——				
-								
	· 							
¹Type: C=Co	ncentration, D=Depletion	n RM=Redu		ed Sand Gr	ains		2l ocation	n: PL=Pore Lining, M=Matrix.
		1, 100	- Index Matrix, Me Macr					
Hydric Soil I			5 5.	0 6 (0)	a			r Problematic Hydric Soils³:
Histosol			Polyvalue Below					ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Surfa			A 149B)		airie Redox (A16) (LRR K, L, R)
	stic (A3)		Loamy Mucky M		(LRR K, L)		_	cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N				_	face (S7) (LRR K, L)
	d Layers (A5)		X Depleted Matrix					e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A	A11)	Redox Dark Sur					k Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dark S	, ,				iganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depressi	ons (F8)				t Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)							oodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)						_	ent Material (F21)
	Matrix (S6)							allow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, ML	RA 149B)					Other (Ex	xplain in Remarks)
3Indicators of	hydrophytic vegetation	and wetland	l hydrology must be pi	resent. unles	ss disturbed	or problem	natic.	
	.ayer (if observed):							
Type:	ah aa\.						Undein Cail Dean	ant2 Vac V Na
Depth (in	cnes):						Hydric Soil Pres	ent? Yes X No
Remarks:	0-11							
	Soil appears to be tilled							

Project/Site:	19020 - 9	South Ripley	City/Co	ounty:	Chautauqua C	ounty	Sampling Date:	08/25/2020
Applicant/Owner:		Conn	ectGen LLC	·		te: New York	· · · -	099-1u
Investigator(s):		AM JLD	Section	n, Township, Ran			vn of Ripley	
Landform (hillslope, terra				ncave, convex, n	-	Convex	Slope	(%): 3-5
Subregion (LRR or MLR		•		2.19416047	Long:	-79.7264052		
Soil Map Unit Name:			Erie silt loam			NWI classification		
Are climatic / hydrologic		site typical for this	time of year? Yes	X No	(If no, e	explain in Remark	s.)	
, ,		* *	significantly disturb		` ′	umstances" prese	,	(No
			naturally problemat			n any answers in		
SUMMARY OF FIN					-	•	•	
		-				o, important	outuros, etc.	
Hydrophytic Vegetatio	on Present?	Yes		Is the Samp		Vaa	No. V	
Hydric Soil Present?		Yes		within a We			NoX	_
Wetland Hydrology Pr	resent?	Yes	_ NoX	ii yes, option	al Wetland Site	ID		-
Remarks: (Explain alte	ernative procedure	es here or in a sepa	arate report.)					
, '	·	•	. ,					
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology I	Indicators:							
Primary Indicators (mi	inimum of one requ	uired; check all that	t apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A	\ 1)		Water-Stained Leaves	s (B9)			Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits (B15)			Moss Trim L	, ,	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	sits (B2)		Oxidized Rhizosphere	es on Living Roof	ts (C3)	Crayfish Bu		
Drift Deposits (B3	3)		Presence of Reduced	I Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Reduction	n in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)
In D 11 /D-			Thin Muck Surface (C	(7)		Geomorphic	Position (D2)	
Iron Deposits (B5	5)		THIT WILL SUITAGE (C	,,,		Ocomorphic	1 03111011 (DZ)	
I — ' '	b) e on Aerial Imager	y (B7)	Other (Explain in Rem	•		Shallow Aqu		
Inundation Visible	-		·	•		Shallow Aqu		
Inundation Visible	e on Aerial Imager		·	•		Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat	e on Aerial Imager		·	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations:	e on Aerial Imager ted Concave Surfa	ace (B8)	Other (Explain in Rem	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen	e on Aerial Imager ted Concave Surfa	No X	Other (Explain in Rem	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen Water Table Present?	e on Aerial Imager ted Concave Surfa ht? Yes _ Yes _	No X No X	Other (Explain in Rem Depth (inches): Depth (inches):	•	Watland Hydr	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No. V
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Present Water Table Present? Saturation Present?	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _	No X	Other (Explain in Rem	•	Wetland Hydro	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	No X
Inundation Visible Sparsely Vegetat Field Observations: Surface Water Presen Water Table Present?	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _	No X No X	Other (Explain in Rem Depth (inches): Depth (inches):	•	Wetland Hydro	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ 19ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Date	e on Aerial Imager ted Concave Surfa nt? Yes _ Yes _ Yes _ 19ge)	No X No X No X	Other (Explain in Rem Depth (inches): Depth (inches): Depth (inches):	narks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X

GETATION - Use scientific names of plants.				
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
ee Stratum (Plot size:30)	%Cover	Species?	Status	
	-	- - 1		Total Number of Dominant
		_		Species Across All Strata: 2 (B)
		_		
		_		Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0 (A/B)
		-		Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15)		=		OBL species 0 x 1 = 0
			_	FACW species 0 x 2 = 0
				FAC species 10 x 3 = 30
				FACU species 48 x 4 = 192
				UPL species 0 x 5 = 0
				Column Totals: 58 (A) 222 (B)
				Prevalence Index = B/A = 3.83
		-		
		= Total Cov		Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5)		_ = 1000	Ci	1 - Rapid Test for Hydrophytic Vegetation
Trifolium repens / White clover	30	Yes	FACU	2 - Dominance Test is >50%
Plantago major / Common plantain	<u></u>	Yes	FACU	3 - Prevalence Index ≤3.0¹
Prunella vulgaris / Self heal	10	No	FAC	4 - Morphological Adaptations (Provide supporting
Trifolium pratense / Red clover	3	No No	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
•			1700	
			- ——	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
-				breast height (DBH), regardless of height.
·		= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
oody Vine Stratum (Plot size: 30)	30	_ = 10tal Cov	er	
oody Vine Stratum (Plot size:30)				Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
				Woody vines - All woody vines greater than 3.28 ft in
				height.
		- Total Cov		Listenhidia
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes NoX

SOIL Sampling Point: 099-1u Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks Nyr 5/4 100 Silt loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 -	South Ripley		City/Count	tv:	Chautauqua	County	Sampling Date:	08/19/2020
Applicant/Owner:			ConnectGen LLC		, <u> </u>		ate: New York		099-1W
Investigator(s):		JK, SPF		Section To	ownship, Rang			wn of Ripley	
Landform (hillslope, terra			pression Local r				Concave		(%): 0
Subregion (LRR or MLR	· · · · · · · · · · · · · · · · · · ·	R R MLRA 139			9069153	Long:	-79.711154	•	,
Soil Map Unit Name:	•				7000100		NWI classification		PSS
Are climatic / hydrologic					No	(If no	explain in Remark		
, ,	, Soil ,		•	ly disturbed?		` '	cumstances" prese	,	(No
			naturally p				ain any answers in		<u> </u>
						-		·	
SUMMARY OF FIN		ch site ma			int location	is, transec	is, important	reatures, etc.	
Hydrophytic Vegetatio	n Present?		X No		Is the Sample	ed Area			
Hydric Soil Present?		Yes	X No		within a Wetl	and?	Yes X	No	_
Wetland Hydrology Pr	esent?	Yes	X No	_	If yes, optiona	al Wetland Site	e ID:	099-1W	
Remarks: (Explain alte	arnative procedur	es here or in a	separate report \						
itemarks. (Explain alt	emative procedure	es nere or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi		uired: check a	all that apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A			Water-Staine	d Leaves (B	(9)			l Cracks (B6)	
High Water Table	•		Aquatic Faun	•	-,			atterns (B10)	
Saturation (A3)	(-)		Marl Deposits				Moss Trim L		
Water Marks (B1)		Hydrogen Su		C1)			Water Table (C2)	
Sediment Deposi	•		X Oxidized Rhi	-	-	s (C3)	Crayfish Bu		
Drift Deposits (B3	` '		Presence of I	-	-	, (33)		/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•				Tilled Soils (C	·6)	_	Stressed Plants (D1	
Iron Deposits (B5			Thin Muck St		Tilled Golla (G	.0)		Position (D2))
I — ' '	e on Aerial Image	n. (D7)	Other (Explai		(c)		X Shallow Aqu		
	-	•	Other (Explai	III III Kelliaik	(5)				
Sparsely vegetat	ed Concave Surfa	ace (Bo)					X FAC-Neutra	aphic Relief (D4)	
							A FAC-Neulla	i iesi (D5)	
Field Observations:									
Surface Water Presen	t? Yes	No	X Depth (inch	es):					
Water Table Present?	Yes	No	X Depth (inch		_				
Saturation Present?	Yes	No _	X Depth (inch			Wetland Hvd	rology Present?	Yes X	No
(includes capillary fring	•								
(o.uuoo oupu.)									
Describe Recorded Da	ata (stream gauge	e, monitoring v	vell, aerial photos, p	orevious insp	pections), if av	ailable:			
Remarks:									

Tree Stratum (Plot size: 30 %Cover 1.	= Total Cove	FACW	Dominance Test worksheet: Number of Dominant Species 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species 100.0 (A/B) Prevalence Index worksheet: 100.0 (A/B) Prevalence Index worksheet: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87
Tree Stratum (Plot size: 30 %Cover 1.	= Total Cove Yes = Total Cove Yes	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
Tree Stratum (Plot size: 30 %Cover 1.	= Total Cove Yes = Total Cove Yes	Status FACW	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 40 x 1 = 40 40 FACW species 50 x 2 = 100 FACW species 50 x 2 = 100 FACW species 0 x 4 = 0 0 UPL species 0 x 4 = 0 0 UPL species 0 x 5 = 0 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
Tree Stratum (Plot size: 30 %Cover 1.	= Total Cove Yes = Total Cove Yes	Status FACW	Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
1. 2. 3. 4. 5. 6. 7. 0 Sapling/Shrub Stratum (Plot size: 15) 30 1. Spiraea tomentosa / Steeplebush 30 30 2. 3. 4. 5. 6. 7. 1. Scirpus cyperinus / Woolgrass 40 2. 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove Yes = Total Cove Yes	FACW	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 40 x 1 = 40 FACW species 50 x 2 = 100 AV AV FAC species 25 x 3 = 75 AV AV FACU species 0 x 4 = 0 0 AV AV AV UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
2.	= Total Cove Yes = Total Cove Yes	FACW	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Multiply by: 0BL species 40 x 1 = 40 FACW species 50 x 2 = 100 AV AV FAC species 25 x 3 = 75 AV AV FACU species 0 x 4 = 0 0 AV AV AV UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
3	= Total Cove Yes = Total Cove Yes	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 15) 1. Spiraea tomentosa / Steeplebush 30 2. 3. 4. 5. 6. 7. 4. 5. 6. 7. 30 Herb Stratum (Plot size: 5) 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove Yes = Total Cove Yes	FACW	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
5. 6. 7. 0 Sapling/Shrub Stratum (Plot size: 15) 1. Spiraea tomentosa / Steeplebush 30 2. 3. 4. 5. 6. 7. 4. 5. 6. 7. 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove Yes = Total Cove Yes	FACW	That Are OBL, FACW, or FAC: 100.0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
6.	= Total Cove Yes = Total Cove Yes	FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
7.	= Total Cove Yes = Total Cove Yes	FACW	Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
7.	= Total Cove Yes = Total Cove Yes	FACW	Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
Sapling/Shrub Stratum (Plot size: 15) 1. Spiraea tomentosa / Steeplebush 30 2. 3. 4. 5. 6. 7. 30	Yes = Total Cove	FACW	OBL species 40 x 1 = 40 FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
1. Spiraea tomentosa / Steeplebush 30 2. 3. 3. 4. 5. 5. 6. 30 Herb Stratum (Plot size: 5) 30 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove		FACW species 50 x 2 = 100 FAC species 25 x 3 = 75 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
1. Spiraea tomentosa / Steeplebush 30 2. 3. 3. 4. 5. 5. 6. 30 Herb Stratum (Plot size: 5) 30 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove		FAC species 25 $\times 3 = 75$ FACU species 0 $\times 4 = 0$ UPL species 0 $\times 5 = 0$ Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87
2.	= Total Cove		FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
3. 4. 5. 6. 7. 1. Scirpus cyperinus / Woolgrass 2. Solidago rugosa / Wrinkle-leaf goldenrod 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove		FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
4. 5. 6. 7. 30 Herb Stratum (Plot size: 5) 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	= Total Cove		UPL species 0 x 5 = 0 Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
5. 30 6. 30 Herb Stratum (Plot size: 5) 40 2. Scirpus cyperinus / Woolgrass 40 15 3. Doellingeria umbellata / Parasol white-top 10 15 4. Euthamia graminifolia / Flat-top goldentop 10 10 5. Onoclea sensibilis / Sensitive fern 10 10	= Total Cove	er -	Column Totals: 115 (A) 215 (B) Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
6	= Total Cove	er	Prevalence Index = B/A = 1.87 Hydrophytic Vegetation Indicators:
7. 30 Herb Stratum (Plot size: 5) 5 1. Scirpus cyperinus / Woolgrass 40 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 15 3. Doellingeria umbellata / Parasol white-top 10 10 4. Euthamia graminifolia / Flat-top goldentop 10 10 5. Onoclea sensibilis / Sensitive fern 10 10	= Total Cove	er	Hydrophytic Vegetation Indicators:
30 Herb Stratum (Plot size: 5) 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	Yes	er	
Herb Stratum (Plot size: 5) 1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	Yes	er	
1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10			
1. Scirpus cyperinus / Woolgrass 40 2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10			1 - Rapid Test for Hydrophytic Vegetation
2. Solidago rugosa / Wrinkle-leaf goldenrod 15 3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10		OBL	X 2 - Dominance Test is >50%
3. Doellingeria umbellata / Parasol white-top 10 4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	168	FAC	X 3 - Prevalence Index ≤3.01
4. Euthamia graminifolia / Flat-top goldentop 10 5. Onoclea sensibilis / Sensitive fern 10	NI-		4 - Morphological Adaptations (Provide supporting
5. Onoclea sensibilis / Sensitive fern 10	No No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
	No	FAC	
6	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
·			be present, unless disturbed or problematic.
7			be present, unless disturbed of problematic.
8.			Definitions of Vegetation Strata
9.			Definitions of vegetation othera
			-
10.		· ———	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.			breast height (DBH), regardless of height.
12.			Sapling/shrub - Woody plants less than 3 in. DBH and
	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)			Herb - All herbaceous (non-woody) plants, regardless of
1			size, and woody plants less than 3.28 ft tall.
2			Woody vines - All woody vines greater than 3.28 ft in
3.			height.
4.			
	= Total Cove	er	Hydrophytic
	10101 0011		Vegetation
			Present? Yes X No

SOIL Sampling Point: 099-1W

Depth	ription: (Describe to the Matrix			Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10yr 3/2	85	5yr 4/6	15	С	PL,M	Clay loam			
6-10	10yr 6/3	50	7.5yr 58	50	С	М	Clay			
								-		
								-		
Type: C=Coi	ncentration, D=Depletion	n, RM=Red	uced Matrix, MS=Masł	ked Sand Gr	ains.		² Locat	tion: PL=P	ore Lining, M=N	latrix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric	Soils ³ :
Histosol			Polyvalue Below	v Surface (S	8) (LRR R .	MLRA 1491) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa					•	edox (A16) (LR	•
	istic (A3)		Loamy Mucky M						at or Peat (S3)	
	en Sulfide (A4)		Loamy Gleyed N		(=:\:\ I L)			-	7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix					-	/) (LKK K, L) / Surface (S8) (I BB K I \
	d Layers (A5) d Below Dark Surface (A	\11\	X Redox Dark Sur						ce (S9) (LRR K	
	ark Surface (A12)	111)								
	, ,		Depleted Dark S					-	Masses (F12)	
	Mucky Mineral (S1)		X Redox Depressi	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)									4A, 145, 149B)
	Redox (S5)						_		erial (F21)	10)
	Matrix (S6)	DA 440D)							ark Surface (TF1	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Other	(Explain ir	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent unles	ss disturbed	or problem	atic			
	_ayer (if observed):									
Type:	Compaction									
Depth (in	iches):	10					Hydric Soil Pr	resent?	Yes X	_ No
Remarks:										
	Refusal 10in clay comp	action								

Project/Site:	19020 - S	outh Ripley		City/Count	ty:	Chautauqua (County	Sampling Date:	08/25/2020
Applicant/Owner:		Con	nectGen LLC	•		•	ate: New York		099-2W
Investigator(s):		AM JLD		Section, To	ownship, Rang			wn of Ripley	
Landform (hillslope, terra		I shaped depress					Concave		(%): 3-5
Subregion (LRR or MLR		R MLRA 139	Lat:	-	9426231		-79.726465		`
Soil Map Unit Name:	· ———		Erie silt loam				NWI classification		JBHh
Are climatic / hydrologic		ite typical for this		Yes X	. No	(If no	explain in Remark		
, ,	, Soil , o		•			` ′	cumstances" prese	,	(No
		r Hydrology r Hydrology					in any answers in		<u> </u>
SUMMARY OF FIN						-	-	•	
							is, important	ieatures, etc.	
Hydrophytic Vegetatio	n Present?	Yes X	No		Is the Sampl				
Hydric Soil Present?		Yes X	No		within a Wet		Yes X		=
Wetland Hydrology Pr	esent?	Yes X	No	-	If yes, optiona	al Wetland Site	e ID:	099	
Remarks: (Explain alte	ernative procedures	here or in a ser	arate report)						
rtemarks. (Explain alt	cinative procedures	, note of in a sep	arate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi	nimum of one requ	ired; check all tha	at apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	.1)		Water-Stained	Leaves (B	39)		Surface Soi	l Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna	(B13)			Drainage Pa	atterns (B10)	
Saturation (A3)			Marl Deposits				Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen Sulf	ide Odor (0	C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	its (B2)	X	Oxidized Rhize	ospheres o	on Living Root	s (C3)	Crayfish Bu		
Drift Deposits (B3	` ,		Presence of R	-	-	,		/isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•		Recent Iron Re		. ,	26)		Stressed Plants (D1	
Iron Deposits (B5			Thin Muck Sur			,	X Geomorphic	,	,
I — ' '	e on Aerial Imagery		Other (Explain		ks)		Shallow Aqu		
	ed Concave Surfac	· · · —	ouror (Explain		,			aphic Relief (D4)	
oparoory vogotati	ou condute curius	(20)					X FAC-Neutra		
					1				
Field Observations:		Na V	_ Depth (inche	s):					
Field Observations: Surface Water Presen	it? Yes _	No <u>X</u>		e).					
	it? Yes _ Yes _	No X	Depth (inche	ວ <i>ງ</i> .					
Surface Water Presen	_		Depth (incheDepth (inche			Wetland Hyd	rology Present?	Yes X	No
Surface Water Present Water Table Present?	Yes _ Yes _	No X	_ · ·			Wetland Hyd	rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present?	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No
Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	Yes _ Yes _ ge)	No X No X	Depth (inche	s):			rology Present?	Yes X	No

Absolut Dominant Indicator Scover Species Status Number of Dominant Species That Are OBL, FACW, or FAC: 5	Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 5 (A)	VEGETATION - Use scientific names of plants.				Sampling Point:099-2W
Absolute	Absolute Comminant Indicator That Are OBL, FACW, or FAC; 5 (A)					Dominance Test worksheet:
Absolute Openmant Indicators That Are OBL, FACW, or FAC; 5 (A)	Absolute Dominant Indicator That Are OBL, FACW, or FAC: 5 (A)					Number of Dominant Species
Tree Stratum	Tree Stratum		Absolute	Dominant	Indicator	·
1	1. Salix / Willow	Tree Stratum (Plot size: 30)				(//
Species Across All Strata: 5	Species Across All Strata: 5 (B)					Total Number of Dominant
3	3	2				
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)	Percent of Dominant Species That Are OBL, FACW, or FAC: 10.0 (A/B)	^				Species Across All Strata.
That Are OBL, FACW, or FAC: 100.0 (A/B)	That Are OBL, FACW, or FAC: 100.0 (A/B)					
Prevalence Index worksheet: Total % Cover of:	Prevalence Index worksheet: Total % Cover of:					•
Total Cover	Tree - Woody Vine Stratum (Plot size:					That Are OBL, FACW, or FAC: 100.0 (A/B)
Total Cover of:	Total & Cover of:	6.			_	
10	Total (Scover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) Salik / Williow	7				
				= Total Cov	/er	Total % Cover of: Multiply by:
		Sapling/Shrub Stratum (Plot size: 15)		-		OBL species0 x 1 =0
2. Comus amomum / Silky dogwood 20 Yes FACW 3.	2. Comus amomum / Silky dogwood 20 Yes FACW 3.		40	Yes	FAC	FACW species 45 x 2 = 90
### Section Se	### Section Fact Se			_		
UPL species	UPL species 0 x5 = 0 Column Totals: 155 (A) 420 (B)					
Column Totals: 155	Column Totals: 155	3				
6. Go Froil Cover Herb Stratum (Plot size: 5 Go FAC Hydrophytic Vegetation Indicators: 1. Rapid Test for Hydrophytic Vegetation Yes FAC Yes FAC Hydrophytic Vegetation Yes Yes FAC Yes FAC Hydrophytic Vegetation Yes Yes FAC Yes FAC Yes FAC Yes FAC Yes FAC Yes FAC Yes Yes FAC Yes Y	6. Government First Government Gove	4				
Prevalence Index = B/A = 2.71	Prevalence Index = B/A = 2.71	E				、 , 、 ,
Flerb Stratum (Plot size: 5) FAC FAC FAC Eupatorium perfoliatum / Common boneset 25 Yes FAC 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Yes FAC 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Yes FAC 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) Problema	Figure					Prevalence Index = B/A = 2.71
Herb Stratum (Plot size: 5) FAC Lebhamia gramninfolia Flat-top goldentop 60 Yes FAC Eupatorium perfoliatum / Common boneset 25 Yes FACW 2 Eupatorium perfoliatum / Common boneset 25 Yes FACW 3 Prevalence Index ≤3.0	Herb Stratum (Plot size: 5) FAC Leuhamia graminifolia Flat-top goldentop 60 Yes FAC Eupatorium perfoliatum / Common boneset 25 Yes FACW 2 Eupatorium perfoliatum / Common boneset 25 Yes FACW 3 Prevalence Index ≤3.0¹ 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Problematic Hydrophytic Vegetation (Explain) 1	-		_		
Herb Stratum (Plot size: 5 5 5 60 Yes FAC 25 Yes FAC 25 Yes FACW 3.0 4 4 4 4 4 4 5 5 6 6 6 7 6 7 6 7 6 7 6 7 7	Herb Stratum (Plot size: 5 5 60 Yes FAC X 2 - Dominance Test is >50% X 3 - Prevalence Index < 3.0 '	· · ·		= Total Cov		
1. Euthamia graminifolia / Flat-top goldentop 60 Yes FAC 2. Eupatorium perfoliatum / Common boneset 25 Yes FACW 3. 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5.	1. Euthamia graminifolia / Flat-top goldentop 60 Yes FAC 2. Eupatorium perfoliatum / Common boneset 25 Yes FACW 3. 3 - Prevalence Index ≤ 3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation Present? Yes X No	Harb Chrotum (Dist size: 5		_ = 10(a) 000	EI	1 - Rapid Test for Hydrophytic Vegetation
2. Eupatorium perfoliatum / Common boneset 2. Yes FACW 3. 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 5.	2. Eupatorium perfoliatum / Common boneset 2. Yes FACW 3. 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Vegetation Strata** **Definitions of Vegetation Strata** **Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. **Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. **Woody Vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody vines greater than 3.28 ft in height. **June - Woody vines - All woody	· <u> </u>	00		-40	X 2 - Dominance Test is >50%
2. Eupatonium perioliatum / Common boneset 2.5 Yes FACW 3.	2. Eupatonium perioliatum / Common boneset 2. Separation Yes FACW 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4.					
Problematic Hydrophytic Vegetation¹ (Explain) 1.	Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	2. Eupatorium perfoliatum / Common boneset	25	Yes	FACW	
4	4	3.				
5	5	4		_		Problematic Hydrophytic Vegetation¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			_		
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No	^				¹Indicators of hydric soil and wetland hydrology must
8	8.					be present, unless disturbed or problematic.
9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. O = Total Cover	9. 10. 11. 12. Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. O = Total Cover	7				
9	9.	8				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. O = Total Cover Hydrophytic Vegetation Present? Yes X No	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	0				
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property is a size of the property o	breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The proof of the pro	_				Troe Woody plants 3 in (7.6 cm) or more in diameter at
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:	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:	11		_		
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	40			_	
Woody Vine Stratum (Plot size:30) 1	Woody Vine Stratum (Plot size:30) 1	12				
1	1		85	_ = Total Cov	/er	greater than or equal to 3.28 ft (1 m) tall.
1	1	Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
2	2	1				
3	3	2				Woody vines - All woody vines greater than 3 28 ft in
4	4	3		_		
= Total Cover	= Total Cover	J.				neight.
Vegetation Present? Yes X No	Vegetation Present? Yes X No	4				11 1
Present? Yes X No	Present? Yes X No		U	_ = Total Cov	/er	
						Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)	Remarks: (Explain alternative procedures here or in a separate report.)					
		Remarks: (Explain alternative procedures here or in a separa	ate report.)			

SOIL Sampling Point: 099-2W

Depth	ription: (Describe to the Matrix	- 1		k Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10yr 4/2	95	7.5 yr 5/6	10	С	PL,M	Silt loam			
6-18	10yr 4/1	80	7.5 yr 5/6	20	С	М	Loam			
	· · ·									
	· 									
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric	Soils3:
Histosol			Polyvalue Belov	v Surface (S8	3) (LRR R ,	MLRA 149E) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa					•	dox (A16) (L I	•
	istic (A3)		Loamy Mucky M			-	_			(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed I		, ,			-	7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					•	Surface (S8)	
	d Below Dark Surface (A11)	Redox Dark Sui				Thin D	ark Surfac	ce (S9) (LRR	K, L)
	ark Surface (A12)		Depleted Dark S							(LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedm	ont Flood	olain Soils (F19	9) (MLRA 149B)
Sandy C	Gleyed Matrix (S4)		_				Mesic	Spodic (T.	A6) (MLRA 1	44A, 145, 149B)
Sandy F	Redox (S5)						Red P	arent Mate	erial (F21)	
Stripped	l Matrix (S6)						Very S	Shallow Da	ırk Surface (TF	·12)
Dark Su	rface (S7) (LRR R, ML	-RA 149B)					Other	(Explain ir	n Remarks)	
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Pr	esent?	Yes X	No
Domorko:										
Remarks:										

Project/Site:	19020 - Sou	th Ripley	City/Cour	nty: C	hautaugua Co	unty	Sampling Date:	08/25/2020
Applicant/Owner:				·			Sampling Point:	100-1U
Investigator(s):	JAN			Township, Range			vn of Ripley	
Landform (hillslope, terrac				ave, convex, none		Convex		(%): 3-5
Subregion (LRR or MLRA				18873788	Long:	-79.732970		`
Soil Map Unit Name:			ilt loam			NWI classification	-	10.15.00
Are climatic / hydrologic c						plain in Remark		
, ,		lydrologysignifi				nstances" prese		(No
		lydrologysignifications				any answers in		<u> </u>
					•	-	•	
SUMMARY OF FINE		site map snowing	sampling po	oint locations	s, transects	s, important	reatures, etc.	
Hydrophytic Vegetation	Present?	Yes No	X	Is the Sampled	d Area			
Hydric Soil Present?		Yes No	X	within a Wetla	nd?	Yes	NoX	=
Wetland Hydrology Pre	sent?	Yes No	X	If yes, optional	Wetland Site II	D:		
	native procedures he pland point for wetla	ere or in a separate repo and 100	rt.)					
HYDROLOGY								
	dia ataua .							
Wetland Hydrology In		-lllll 4l4l. \					(!-!	
Primary Indicators (min	· · · · · · · · · · · · · · · · · · ·	11.77		DO)		•	ators (minimum of t	wo requirea)
Surface Water (A1	•		ained Leaves (вэ)	_		Cracks (B6)	
High Water Table ((AZ)		Fauna (B13)		_		atterns (B10)	
Saturation (A3)			oosits (B15)	(C4)	_	Moss Trim L	` '	
Water Marks (B1)	· (DO)		n Sulfide Odor		-		Water Table (C2)	
Sediment Deposits			-	on Living Roots (Crayfish Bu		(00)
Drift Deposits (B3)			e of Reduced In	. ,	_		isible on Aerial Ima	o , , ,
Algal Mat or Crust				n Tilled Soils (C6	_		Stressed Plants (D1)
Iron Deposits (B5)			ck Surface (C7)		_		Position (D2)	
l —	on Aerial Imagery (E	· — ·	xplain in Remai	rks)	_	Shallow Aqu		
Sparsely Vegetate	d Concave Surface ((B8)			-		aphic Relief (D4)	
					-	FAC-Neutra	Test (D5)	
Field Observations:		No X Depth ((inches):					
Field Observations:	? Yes							
Surface Water Present								
Surface Water Present? Water Table Present?	Yes	No X Depth (· · · ——	VA.	letland Hydrol	ony Present?	Vec	No X
Surface Water Present' Water Table Present? Saturation Present?	Yes	No X Depth ((inches):	w	etland Hydrol	logy Present?	Yes	No X
Surface Water Present? Water Table Present?	Yes	No X Depth (· · · ——	W	etland Hydrol	logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed) Describe Recorded Data	Yes Yes	No X Depth ((inches):			logy Present?	Yes	No X

VEGETATION - Use scientific names of plants.				Sampling Point:100-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Tron Stratum (Diet aize: 20)				That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	T
Prunus serotina / Black cherry	40	Yes	FACU	Total Number of Dominant
2. Fagus grandifolia / American beech	10	No	FACU	Species Across All Strata: 5 (B)
3. Acer rubrum / Red maple	1	No	FAC	
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.				
7.		-		Prevalence Index worksheet:
···	51	= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			5 1	OBL species 0 $x = 0$
	00	\/	FACIL	FACW species 0 x 2 = 0
Hamamelis virginiana / American witch-hazel		Yes	FACU	FAC species 1 x3 = 3
2. Fagus grandifolia / American beech	10	Yes	FACU	
3				
4				UPL species 0 x 5 = 0
5				Column Totals: <u>86</u> (A) <u>343</u> (B)
6.				Prevalence Index = B/A = 3.99
7		-	· · · · · · · · · · · · · · · · · · ·	
1.	30	= Total Cove		Hydrophytic Vegetation Indicators:
Llowb Chrotuma (Diot sime) 5		_ = 10tal 0000	J 1	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	4.0			2 - Dominance Test is >50%
Thelypteris noveboracensis / New york fern	10	Yes	· ·	3 - Prevalence Index ≤3.0¹
2. Hamamelis virginiana / American witch-hazel	5	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				Problematic Hydrophytic vegetation (Explain)
5.				
6.			·	¹Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
			· · ·	
			·	Definitions of Vegetation Strata
9				
10.		_	·	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11			<u></u> .	breast height (DBH), regardless of height.
12	_			Sapling/shrub - Woody plants less than 3 in. DBH and
	15	= Total Cove	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2.	-		·	
2		_		Woody vines - All woody vines greater than 3.28 ft in
J			· 	height.
4				
	0	_ = Total Cove	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 100-1U

Depth	ription: (Describe to th Matrix	ie ueptii nee		e indicator of Features	or confirm the a	auseno	ce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type¹ Lo	DC ²	Texture	Remarks	
0-3	5YR 2.5/1	100	, ,				Loam		
3-18	10YR 4/4	100					Silt loam		
3-10	10110 4/4	100					Oilt Ioaili		
	-								
	-								
Type: C=Cor	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ins.		² Location	: PL=Pore Lining, M=Mati	rix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric Soi	le³·
-			Polyvoluo Polovy	Surface (So) (I DD D MI D	A 140E			
Histosol			Polyvalue Below					k (A10) (LRR K, L, MLR	
Histic Ep	pipedon (A2)		Thin Dark Surfac	e (S9) (LRI	R R, MLRA 149	В)	Coast Pra	airie Redox (A16) (LRR I	K, L, R)
Black Hi	stic (A3)		Loamy Mucky Mi	neral (F1) (I	LRR K, L)		5 cm Mud	ky Peat or Peat (S3) (LR	R K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surf	ace (S7) (LRR K, L)	
Stratified	Layers (A5)		Depleted Matrix					Below Surface (S8) (LR	R K. L)
	d Below Dark Surface (A	111)	Redox Dark Surf					Surface (S9) (LRR K, L	· •
	•	(11)	Depleted Dark S						
	ark Surface (A12)							ganese Masses (F12) (L	
	lucky Mineral (S1)		Redox Depression	ons (F8)				Floodplain Soils (F19) (N	
Sandy G	Gleyed Matrix (S4)						Mesic Sp	odic (TA6) (MLRA 144A	, 145, 149B)
Sandy R	ledox (S5)						Red Pare	nt Material (F21)	
Stripped	Matrix (S6)						Very Sha	low Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, ML	RA 149B)						plain in Remarks)	
	, , , ,	,					`	,	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be pro	esent, unless	s disturbed or pr	roblem	atic.		
Restrictive L	.ayer (if observed):								
Type:									
							Undela Oall Barre		NI- V
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>X</u>
Remarks:									

Project/Site:	19020 - South Ripley	City/County:	Chautauqua	County	Sampling Date:	08/25/2020
Applicant/Owner:	Conn	ectGen LLC	S	State: New York	Sampling Point:	100-1W
Investigator(s):	JAM JD	Section, Township	o, Range:	Tov	wn of Ripley	
Landform (hillslope, terrace, e	etc): Undulating	Local relief (concave, con		Concave	Slope	(%): 0-5
Subregion (LRR or MLRA):	LRR R MLRA 139	Lat: 42.1888699	Long:	-79.7330901	12 Datum	n: NAD 83
Soil Map Unit Name:	L	angford silt loam		NWI classification	on:	
	itions on the site typical for this	ime of year? Yes X	No (If no	— o, explain in Remark	s.)	
		significantly disturbed?	Are "Normal Ci	ircumstances" prese	ent? Yes X	(No
Are Vegetation , Soi		naturally problematic?		olain any answers in	Remarks.)	
SUMMARY OF FINDING	GS - Attach site map sh	 owing sampling point lo		cts, important	features, etc.	
Hydrophytic Vegetation Pre	-		Sampled Area	-	•	
Hydric Soil Present?	Yes X	· —	a Wetland?	Yes X	No	
Wetland Hydrology Present		- · · · · · · · · · · · · · · · · ·	optional Wetland Si		100	-
Remarks: (Explain alternati Data point 100	ve procedures here or in a sepa 0-1W for PFO wetland	rate report.)				
HYDROLOGY						
Wetland Hydrology Indica	itors:					
	m of one required; check all that	apply)		Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)	X	Water-Stained Leaves (B9)			Cracks (B6)	
High Water Table (A2)	 -	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)	_	Hydrogen Sulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2	2)	Oxidized Rhizospheres on Living	g Roots (C3)	Crayfish Bui	rrows (C8)	
Drift Deposits (B3)	_	Presence of Reduced Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled S	Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)	_	Thin Muck Surface (C7)		X Geomorphic	Position (D2)	
Inundation Visible on A	- · · · · —	Other (Explain in Remarks)		Shallow Aqu		
Sparsely Vegetated Co	oncave Surface (B8)				aphic Relief (D4)	
				X FAC-Neutra	l Test (D5)	
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):	_			
Saturation Present?	Yes NoX	Depth (inches):	Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe)						
Describe Recorded Data (s	tream gauge, monitoring well, a	erial photos, previous inspections	s), if available:			
Remarks:						

				Sampling Point:100-1W_
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer rubrum / Red maple	30	Yes	FAC	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	20	Yes	FAC	Species Across All Strata: 3 (B)
3		_		
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
Opeling/Obserts Obserts (District)	50	_ = Total Cov	er	OBL species 85 x 1 = 85
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0
1.				FAC species 50 x 3 = 150
2.				FACU species 0 x 4 = 0
3.				UPL species 0 x 5 = 0
4.			 	Column Totals: 135 (A) 235 (B)
5.			 	Prevalence Index = B/A = 1.74
6.		-		
7		- Total Cay		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ = Total Cov	'ei	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5) 1. Leersia oryzoides / Rice cutgrass	85	Yes	OBL	X 2 - Dominance Test is >50%
			_	X 3 - Prevalence Index ≤3.01
2.				4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
-				
^				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
0				
0				Definitions of Vegetation Strata
				To a Manda de de Cir. (7.0 cm) as social dispositant
10.			-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
12	<u></u>	= Total Cov	ver	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				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4.				no.g.m
· · ·	0	= Total Cov	ver	Hydrophytic
		=		Vegetation
Remarks: (Explain alternative procedures here or in a sep				Present? Yes No

SOIL Sampling Point: 100-1W

Depth	Matrix			k Features	0. 00	tile absent	ce of indicator	J.,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	5YR 3/2	100					Peat	
4-12	5YR 2.5/1	95	5YR 4/6	5	C	M	Loam	
12-30	2.5Y 3/1	95	7.5YR 4/4	5	C	М	Loam	
Type: C=Cor	ncentration, D=Depletion	n RM=Redi	ıced Matrix MS=Masl	ked Sand G	ains		²l oca	ation: PL=Pore Lining, M=Matrix.
		, raw rada	Toda Matrix, Mo Masi	- Carla Ci	unio.			
ydric Soil lı			5 5.	0 1 10	a			s for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov				-	Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Surfa			149B)		st Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M		(LRR K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N					Surface (S7) (LRR K, L)
	Layers (A5)	A44)	Depleted Matrix					value Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	X Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depressi	ions (F8)				mont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							c Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							Parent Material (F21)
	Matrix (S6)	DA 440D\						Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, M	LKA 149B)					Othe	r (Explain in Remarks)
Indicators of	hydrophytic vegetatior	and wetland	hydrology must be p	resent, unle	ss disturbed	or problem	atic.	
	array (if abaamiad).							
Restrictive L	aver (if observed):							
Restrictive L Type:								
Туре:							Hydric Soil P	Present? Yes X No
							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc			<u> </u>				Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Туре:							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No
Type: Depth (inc							Hydric Soil P	Present? Yes X No

Project/Site:	19020 -	South Ripley		City/County:	:	Chautaugua (County	Sampling Date:	08/26/2020
Applicant/Owner:			nectGen LLC	,,			ate: New York		101-1U
Investigator(s):		AM JD JG		Section, Tow	vnship, Rang		-	wn of Ripley	-
Landform (hillslope, terra					, convex, no		none		e (%): 0-5
Subregion (LRR or MLRA			Lat:			Long:	-79.732986		` '
Soil Map Unit Name:	,		Erie Silt Ioam		-		NWI classificati		
Are climatic / hydrologic	conditions on the	site typical for this		Yes X	No	(If no.	explain in Remar	-	
Are Vegetation			•				cumstances" pres	•	X No
		or Hydrology					ain any answers ir		
SUMMARY OF FIN						· ·	-	•	
Hydrophytic Vegetation		Yes X			s the Sample		,		
Hydric Soil Present?	ii rieseiit!	Yes		-	vithin a Wetl		Yes	No. Y	
Wetland Hydrology Pre	esent?	Yes	_	-		ariu : Il Wetland Site		No <u>X</u>	_
Remarks: (Explain alte				- "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HYDROLOGY									
Wetland Hydrology In		muirodi abaal: -!! !!	ot applica				Coordon In I	otoro (minimo e	huo roguiro:!\
Primary Indicators (min Surface Water (A		quired; check all tha		Logyes (DO)	١			ators (minimum of t	two requirea)
· — `	,	_	Water-Stained Aquatic Fauna	, ,)			il Cracks (B6)	
High Water Table Saturation (A3)	(AZ)		Marl Deposits (atterns (B10) Lines (B16)	
Water Marks (B1)	١		Hydrogen Sulfi		1)			n Water Table (C2)	
Sediment Deposit	-		Oxidized Rhizo	•	•	(C3)		urrows (C8)	
Drift Deposits (B3			Presence of Re	•	-	(00)		Visible on Aerial Im	agery (C9)
Algal Mat or Crus	•		Recent Iron Re		` ,	6)		Stressed Plants (D	
Iron Deposits (B5			Thin Muck Surf			0)		c Position (D2)	•,
Inundation Visible	•	erv (B7)	Other (Explain)		Shallow Ag		
Sparsely Vegetate	-	· · · · —	(=::p:::::::	,	,			raphic Relief (D4)	
		,					FAC-Neutra		
Field Observations:									
Surface Water Present	t? Yes	No X	Depth (inches	3).					
Water Table Present?	Yes	No X		-					
Saturation Present?	Yes	No X	Depth (inches	·		Wetland Hvd	rology Present?	Yes	No X
(includes capillary fring								.00	
(
Describe Recorded Da	ata (stream gaug	e, monitoring well,	aerial photos, pre	evious inspe	ections), if av	ailable:			
Remarks:									
i .									

VEGETATION - Use scientific names of plants.				Sampling Point:101-1U
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	40	Yes	FAC	Total Number of Dominant
2. Prunus serotina / Black cherry	40	Yes	FACU	Species Across All Strata: 4 (B)
3.				(//
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 75.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	80	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 85 x 3 = 255
3.				FACU species 40 x 4 = 160
4.				UPL species0 x 5 =0
5.				Column Totals: 125 (A) 415 (B)
6.		-		Prevalence Index = B/A = 3.32
7.				
· · ·	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			.	1 - Rapid Test for Hydrophytic Vegetation
1. Thelypteris noveboracensis / New york fern	30	Yes	FAC	X 2 - Dominance Test is >50%
Dryopteris intermedia / Evergreen wood fern	15	Yes	FAC	3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
4				Problematic Hydrophytic Vegetation¹ (Explain)
-			- ·	
^			 	¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Venetation Of the
0				Definitions of Vegetation Strata
				Total Manda district Oir (7.0 cm) or many in disposits of
10. 11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				
	45	= Total Cov	er	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				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3.				Woody vines - All woody vines greater than 3.28 ft in height.
4.				noight.
··· -	0	= Total Cov	er	Hydrophytic
			.	Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 101-1U

Depth	iption: (Describe to th Matrix	e dehiii iiee		re indicator	or committee th	e auseil	se or mulcators)·j
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 5/6	100					Silt loam	
								
							·	
								
Type: C=Cor	centration, D=Depletion	, RM=Reduc	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Locat	ion: PL=Pore Lining, M=Matrix.
		-	·					
Hydric Soil II			Dobarduo Polo	v Curfoso (Ci	0\	DA 440E		for Problematic Hydric Soils ³ :
Histosol		-	Polyvalue Belov	•	, .		· —	Muck (A10) (LRR K, L, MLRA 149B)
Black His	ipedon (A2)	-	Thin Dark Surfa Loamy Mucky N			496)		Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed		(LKK K, L)			Surface (S7) (LRR K, L)
	Layers (A5)	-	Depleted Matrix					alue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	.11)	Redox Dark Su					Park Surface (S9) (LRR K, L)
	rk Surface (A12)	···/	Depleted Dark					langanese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	-	Redox Depress					iont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)	-		,				Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)						Red P	arent Material (F21)
Stripped	Matrix (S6)						Very S	Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other	(Explain in Remarks)
3Indicators of	hydrophytic vegetation a	and wotland	hydrology must bo n	rocont unlos	e disturbed or	nroblom	otio	
		and welland	mydrology must be p	resent, unles	s disturbed or	problem	auc.	
	ayer (if observed):							
Type:	phon):						Uvdria Sail Dr	vecent2 Vec V No
Depth (in	mes):						Hydric Soil Pr	resent? Yes X No
Remarks:								

Project/Site:	19020	- South Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	08/26/2020
Applicant/Owner:			ConnectGen LLC	,	·	· · · · · · · · · · · · · · · · · · ·	ate: New York	· · ·	101-1W
Investigator(s):		JAM JD JG		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terrad			Local r		ave, convex, n		Concave	Slope	(%): 0-5
Subregion (LRR or MLRA		RR R MLRA 13		-	18981097	Long:	-79.733296	·	` '
Soil Map Unit Name:	·		Erie Silt Ioam				NWI classificati		
Are climatic / hydrologic c	conditions on th	e site typical for			X No	(If no,	explain in Remark	-	
Are Vegetation		,,	•				cumstances" pres	•	X No
			naturally p				ain any answers in		
SUMMARY OF FINE		_				· ·	•	•	
Hydrophytic Vegetation				· · · ·	Is the Samp	· · · · · · · · · · · · · · · · · · ·	, p	,	
Hydric Soil Present?	i i resent:		X No No		within a We		Yes X	No	
Wetland Hydrology Pre	seant?		X No	_		nal Wetland Site	·	NO 100	=
,					ii yes, optioi	iai vvetiaria oiti		100	
Remarks: (Explain alter 101-1W	rnative procedi	ures here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology In	dicators:								-
Primary Indicators (min		aquired: chack a	ill that apply)				Secondary India	ators (minimum of t	wo required)
Surface Water (A1		oquireu, crieck a	Water-Staine	d Leaves /	'R9)			ators (minimum or t	wo required)
High Water Table	•		Aquatic Faun	,	(09)			atterns (B10)	
Saturation (A3)	(AZ)		Marl Deposits					Lines (B16)	
Water Marks (B1)			Hydrogen Su		(C1)			Water Table (C2)	
Sediment Deposits			X Oxidized Rhi			ts (C3)	Crayfish Bu		
Drift Deposits (B3)	` '		Presence of I		-	10 (00)		√isible on Aerial Ima	agery (C9)
Algal Mat or Crust					in Tilled Soils (C6)		Stressed Plants (D1	
Iron Deposits (B5)			Thin Muck Su			20)		c Position (D2)	,
Inundation Visible		iery (B7)	Other (Explai				Shallow Aq		
Sparsely Vegetate	-				,			raphic Relief (D4)	
		(= -)					X FAC-Neutra		
Field Observations:									
Surface Water Present	? Ye:	s No	X Depth (inch	es).					
Water Table Present?	Ye:		X Depth (inch						
Saturation Present?	Yes		X Depth (inch	· —		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring									
(
Describe Recorded Da	ta (stream gau	ge, monitoring v	vell, aerial photos, p	previous in	spections), if a	vailable:			
Remarks:									
Tromano.									
<u> </u>									

EGETATION - Use scientific names of plants.				Sampling Point:101-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC:6 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	30	Yes	FAC	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	Species Across All Strata: 6 (B)
3.	· ·			(,
				Percent of Dominant Species
4			-	That Are OBL, FACW, or FAC: 100.0 (A/B)
6				That Ale OBL, FACTV, OF FAC. 100.0 (A/B)
6.				Prevalence Index worksheet:
7				
	40	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15)				OBL species 50 x 1 = 50
Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FACW species 80 x 2 = 160
2. Lindera benzoin / Northern spicebush	10	Yes	FACW	FAC species 30 x 3 = 90
3.				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
4				Column Totals: 160 (A) 300 (B)
-		_	-	Prevalence Index = B/A = 1.88
6		_	<u> </u>	1 Tevalence index = B/A = 1.00
7				Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				
Leersia oryzoides / Rice cutgrass	50	Yes	OBL	X 2 - Dominance Test is >50%
2. Doellingeria umbellata / Parasol white-top	40	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
Impatiens capensis / Spotted jewelweed	10	No	FACW	4 - Morphological Adaptations (Provide supporting
4.			171011	Problematic Hydrophytic Vegetation¹ (Explain)
		_	-	
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				25 process, amose distance of processing and
8				Definitions of Vegetation Strata
9				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		-		breast height (DBH), regardless of height.
12.				
12.	100	= Total Cov	or	Sapling/shrub - Woody plants less than 3 in. DBH and
Mandy Vine Stratum (Plateine)	100	_ = 10(a) Cov	Ci	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.		_	<u> </u>	size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.			_,	height.
4.				
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes X No

SOIL Sampling Point: 101-1W

(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0.4 10yr 2/1 100 6-18 10yr 6/2 70 7.5yr 5/8 30 C PL,M Loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, MS=Reduced Sand Sand Sand Sand Sand Sand Sand San	Profile Descr Depth	iption: (Describe to the Matrix	ne depth need		ne indicator	or confirm	the absen	ce of indicator	S.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. *Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: 1	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. # Hydric Soil Indicators: Histosol (A1)	0-4	10yr 2/1	100						
Histosol (A1)	6-18	10yr 6/2	70	7.5yr 5/8	30	C	PL,M	Loam	
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)	'Type: C=Con	centration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Mask	ked Sand Gi	rains.		²Loca	ation: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Each Observed (S1) Each Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Hydric Soil Present? Thin Dark Surface (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LR		ndicators:						Indicators	s for Problematic Hydric Soils³:
Black Histic (A3)	Histosol	(A1)		Polyvalue Belov	v Surface (S	88) (LRR R ,	MLRA 1491	B) 2 cm	Muck (A10) (LRR K, L, MLRA 149B)
Black Histic (A3)	Histic Ep	ipedon (A2)	_	Thin Dark Surfa	ce (S9) (LF	RR R, MLRA	A 149B)	Coas	t Prairie Redox (A16) (LRR K, L, R)
Hydrogen Sulfide (A4)			_	Loamy Mucky M	lineral (F1)	(LRR K, L)			
Stratified Layers (A5)			-		, ,	. ,			
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			_	X Depleted Matrix	(F3)				
Thick Dark Surface (A12)			_						
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No			_						
Sandy Gleyed Matrix (S4)	Sandy M	ucky Mineral (S1)	_					— Piedr	mont Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators 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	Sandy G	leyed Matrix (S4)	_	<u> </u>				Mesi	c Spodic (TA6) (MLRA 144A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No	Sandy R	edox (S5)						Red I	Parent Material (F21)
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No								Very	Shallow Dark Surface (TF12)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No	Dark Sur	face (S7) (LRR R, ML	.RA 149B)						
Restrictive Layer (if observed): Type:	21 11 1 6								
Type:	Indicators of	nydropnytic vegetation	and wetland r	nydrology must be pi	resent, unie	ss disturbed	or problem	atic.	
Depth (inches): Hydric Soil Present? Yes X No		ayer (if observed):							
Remarks:	Depth (inc	ches):						Hydric Soil P	resent? Yes X No
	Remarks:								

Project/Site:	19020) - South Ripley		City/Count	tv:	Chautauqua (County	Sampling Date:	06/30/2020
Applicant/Owner:		·	onnectGen LLC	. ,	, <u> </u>		ate: New York		10-1W
Investigator(s):	Matt Sp	adoni & Sam Park	ker	Section, To	ownship, Rang	ge:	Tov	wn of Ripley	
Landform (hillslope, teri	race, etc): Act	tive channel/ hillsi	de seep Local r	elief (concav	ve, convex, no	one):	Convex	Slope	: (%): 1-5
Subregion (LRR or MLF		RR R MLRA 139			8289939	Long:	-79.669352	·	` '
Soil Map Unit Name:	· -		Busti silt loar	n		_	NWI classification	on:	
Are climatic / hydrologic	conditions on th	ne site typical for t	his time of year?	Yes X	No	(If no,	- explain in Remark	(s.)	
Are Vegetation			•	ly disturbed?			cumstances" prese	•	X No
		, or Hydrology		•			ain any answers in		
SUMMARY OF FIN	_						-	•	
Hydrophytic Vegetati		Yes X			Is the Sampl	•		, , , , , , , , , , , , , , , , , , , ,	
Hydric Soil Present?		Yes X		_	within a Wet		Yes X	No	
Wetland Hydrology P		Yes X		_		al Wetland Site		Wetland 10	_
Wettaria Frydrology F				_	ii yes, optioni	ai vvetidila oite		vvctiana 10	
Remarks: (Explain al	ternative proced	ures here or in a s	separate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m		equired: check all	that apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A		oquilou, ollook uii	Water-Staine	d Leaves (B	39)			l Cracks (B6)	ooquou/
High Water Tabl	,	-	Aquatic Faur	•	,		X Drainage Pa		
Saturation (A3)	` '	-	Marl Deposit				Moss Trim L		
Water Marks (B		-	X Hydrogen Su	` '	C1)			Water Table (C2)	
Sediment Depos	•	=	X Oxidized Rhi			s (C3)	Crayfish Bu		
Drift Deposits (E	` '	-	Presence of	-	-	3 (33)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•	-			Tilled Soils (0	26)		Stressed Plants (D	
Iron Deposits (B		-	Thin Muck S		r riiica oolis (c	50)	X Geomorphic	· ·	')
I — ' '	ole on Aerial Imag	nery (R7)	Other (Expla	, ,	ke)		Shallow Aqu		
	ated Concave Su		Outer (Explu	iii iii i (Ciiiaii)	(3)			raphic Relief (D4)	
oparodry vogota	nou comouvo cu	11400 (20)					X FAC-Neutra		
							_ 		
Field Observations:									
Surface Water Prese		es No		·					
Water Table Present		es No		· —					
Saturation Present?	Yes	es No	X Depth (inch	ies):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary frin	nge)								
Describe Recorded D	Data (stream gau	uge, monitoring we	ell, aerial photos, i	orevious inst	pections), if av	/ailable:			
2000001.000.000	rata (ott oatti gaa	.go,o	,,, aoa. po.oo,	p. 0	poot.oo _/ , a.				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 10-1W
·				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	<u> </u>
1. Tsuga canadensis / Eastern hemlock	30	Yes	FACU	Total Number of Dominant
2	-		TAGO	
			· · · · · · · · · · · · · · · · · · · 	Species Across All Strata: 3 (B)
3.				
4			· -	Percent of Dominant Species
5	-			That Are OBL, FACW, or FAC: 66.7 (A/B)
6				
7				Prevalence Index worksheet:
	30	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 40 x 1 = 40
1.				FACW species 30 x 2 = 60
2.				FAC species 0 x 3 = 0
3.		-		FACU species 30 x 4 = 120
4				UPL species 0 x 5 = 0
			· · · · · · · · · · · · · · · · · · · 	Column Totals: 100 (A) 220 (B)
5	-			Prevalence Index = B/A = 2.2
6			· -	1 Tevalence index = B/A = 2.2
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				X 2 - Dominance Test is >50%
1. Impatiens capensis / Spotted jewelweed	30	Yes	FACW	
2. Myosotis scorpioides / Forget me not, Water forget-me-not	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
3. Carex stipata / Awlfruit sedge	10	No	OBL	4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
	-			¹ Indicators of hydric soil and wetland hydrology must
7		-		be present, unless disturbed or problematic.
7				
8	-			Definitions of Vegetation Strata
9				
10			<u> </u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12		_		Sapling/shrub - Woody plants less than 3 in. DBH and
	70	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2.			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
3.		_	-	height.
4.				g.m.
T	0	= Total Cov	er.	Hydrophytic
		_ = 10(a) COV	GI	Vegetation
				Present? Yes X No
Demarks: (Evolain alternative precedures here or in a congrete	roport \			•
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: _____10-1W

	•	e aeptn need	led to document th		or confirm	the abse	nce of indicators.)	
Depth (inches)	Matrix Color (moist)			Features	T. ee - 1	1 2	Tavdore	Damada-
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc²	Texture	Remarks
0-18	10YR 3/1	90	5YR 5/8	10	C	PL	Mucky Clayey	_
-								
-								
							·	
-								
	·							
	·							
	·							
47. 0.0								
¹Type: C=Cor	ncentration, D=Depletion,	, RM=Reduce	ed Matrix, MS=Mask	ced Sand Gra	ains.		²Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators fo	or Problematic Hydric Soils³:
X Histosol	(A1)	_	Polyvalue Below	Surface (S8	3) (LRR R, I	MLRA 14	9B) 2 cm Μι	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)	_	Loamy Mucky M	lineral (F1) (LRR K, L)		5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
X Hydroge	n Sulfide (A4)		Loamy Gleyed N	//atrix (F2)			Dark Su	rface (S7) (LRR K, L)
Stratified	d Layers (A5)	<u></u>	X Depleted Matrix	(F3)			Polyvalu	ie Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface (A	11)	Redox Dark Sur	face (F6)			Thin Da	rk Surface (S9) (LRR K, L)
X Thick Da	ark Surface (A12)	_	Depleted Dark S	Surface (F7)			Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)	_	Redox Depressi	ons (F8)			Piedmoi	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy R	ledox (S5)						Red Par	rent Material (F21)
Stripped	Matrix (S6)						Very Sh	allow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, MLR	RA 149B)					Other (E	xplain in Remarks)
3Indicators of	hydrophytic vegetation a	and wotland h	ydrology must bo p	rocont unloc	e dieturbed	or problem	matia	
		ind welland i	yurology must be pi	esent, unies	s disturbed	or proble	liauc.	
	ayer (if observed):							
Type:								
Depth (in	ches):		<u> </u>				Hydric Soil Pres	sent? Yes X No
Remarks:							ļ	
remane.								

Project/Site:	19020 - 5	South Ripley	(City/County	<i>/</i> :	Chautauqua (County	Sampling Date:	08/26/2020
Applicant/Owner:		<u> </u>	ectGen LLC	,,			ate: New York		102-1U
Investigator(s):	JA	AM JD JG		Section. To	wnship, Rang			wn of Ripley	
Landform (hillslope, terra					e, convex, no		convex		e (%): 10-15
Subregion (LRR or MLR	A): LRF	R R MLRA 139	 Lat:		232567	Long:	-79.733598		` '
Soil Map Unit Name:	, <u> </u>		utaugua Silt loa				NWI classification		
Are climatic / hydrologic	conditions on the	site typical for this ti	me of year? \	Yes X	No	(If no,	– explain in Remark	(s.)	
Are Vegetation	, Soil	or Hydrology	significantly	disturbed?			cumstances" prese		X No
Are Vegetation						needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN	_				nt location	ns. transec	ts. important	features, etc.	
Hydrophytic Vegetation		Yes	No X		Is the Sampl	· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Present?	TIT TOSCITE	Yes X	No X	•	within a Wet		Yes	No X	
Wetland Hydrology Pr	resent?	Yes	No X			al Wetland Site		NOX	_
vveilana riyarology ri			<u> </u>	·	n yes, option	ui Welland Oll			
Remarks: (Explain alt upland p	ernative procedure point for wetland 10		rate report.)						
HYDROLOGY									
Wetland Hydrology I	Indicators:								
Primary Indicators (m		uired; check all that	apply)				Secondary Indica	ators (minimum of	two required)
Surface Water (A	N1)	,	Water-Stained	Leaves (B9	9)			l Cracks (B6)	
High Water Table	∍ (A2)	<u> </u>	Aquatic Fauna	(B13)			Drainage Pa	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposits (B15)			Moss Trim I	_ines (B16)	
Water Marks (B1)	!	Hydrogen Sulfic	de Odor (C	(1)		Dry-Season	Water Table (C2)	
Sediment Depos	its (B2)		Oxidized Rhizo	spheres or	n Living Roots	s (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B	3)	!	Presence of Re	educed Iron	n (C4)		Saturation \	/isible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)	!	Recent Iron Re	duction in	Tilled Soils (C	C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B	5)		Thin Muck Surf	face (C7)			Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Imager	y (B7)	Other (Explain	in Remarks	s)		Shallow Aq	uitard (D3)	
Sparsely Vegeta	ted Concave Surfa	ice (B8)						raphic Relief (D4)	
							FAC-Neutra	ıl Test (D5)	
Field Observations:									
Surface Water Preser	nt? Yes	No X	Depth (inches	s):					
Water Table Present?	-	No X	Depth (inches						
Saturation Present?	Yes	No X	Depth (inches	· —		Wetland Hyd	rology Present?	Yes	No X
(includes capillary frin	ge)			′		•	0,	_	
(
Describe Recorded D	ata (stream gauge	, monitoring well, ac	erial photos, pre	evious insp	ections), if av	/ailable:			
Damada									
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:102-1U
-				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	
Prunus serotina / Black cherry	30	Yes	FACU	Total Number of Dominant
2.				Species Across All Strata: 8 (B)
3				
4	_	_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25.0 (A/B)
6				Duranda na la dan manisa baati
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
	30	_ = Total Cov	er	Total % Cover of: Multiply by: OBL species 5 x 1 = 5
Sapling/Shrub Stratum (Plot size: 15)	45	\/	LIDI	FACW species 5 x 2 = 10
Rhus typhina / Staghorn sumac Prunya paratina / Black sharn	<u>15</u> 15	Yes	UPL	FAC species 40 x 3 = 120
Prunus serotina / Black cherry Cretocous / Houthorn	10	Yes Yes	FACU FAC	FACU species 105 x 4 = 420
Crataegus / Hawthorn Cornus amomum / Silky dogwood	5	No	FACW	UPL species 15 x 5 = 75
	- 		FACV	Column Totals: 170 (A) 630 (B)
5. 6.				Prevalence Index = B/A = 3.71
		_		
7	45	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			O.	1 - Rapid Test for Hydrophytic Vegetation
1. Solidago rugosa / Wrinkle-leaf goldenrod	30	Yes	FAC	2 - Dominance Test is >50%
2. Rosa multiflora / Multiflora rose, Multiflora rosa	20	Yes	FACU	3 - Prevalence Index ≤3.0¹
3. Rubus allegheniensis / Allegheny blackberry	20	Yes	FACU	4 - Morphological Adaptations (Provide supporting
4. Solidago canadensis / Canada goldenrod	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5. Scirpus cyperinus / Woolgrass	5	No	OBL	
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11	-	_		breast height (DBH), regardless of height.
12		_		Sapling/shrub - Woody plants less than 3 in. DBH and
	95	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2	-	-		Woody vines - All woody vines greater than 3.28 ft in
3				neight.
4	0	= Total Cov		Hydrophytic
		_ = 10tal Cov	EI	Vegetation
				Present? Yes No X
				165 16
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 102-1U

Depth	ription: (Describe to the Matrix			r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10YR 4/2	85	7.5YR 4/6	15		М	Silt loam			
Type: C=Coi	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=I	Matrix.
l d							locali a ada os	. f D h.l	4! - 1! d-! -	0-11-3-
Hydric Soil I			5 5.	0 1 101					ematic Hydric	
Histosol	` '		Polyvalue Belov) (LRR K, L, N	
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LF	
	istic (A3)		Loamy Mucky M		(LRR K, L)					(LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	7) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix						Surface (S8)	
	d Below Dark Surface (A	A11)	Redox Dark Sur						ce (S9) (LRR	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)							Parent Mat		
	l Matrix (S6)								ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Othe	r (Explain ii	n Remarks)	
31 malionatoro af	i haadaa ahaatia a	and watten	hudrala au mauat ha m		ام ماسينام الم		ati a			
Indicators of	hydrophytic vegetation	and welland	Trydrology mast be p	resent, unies		or problem	auc.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
tomanto.										

Project/Site:	19020 - S	South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	08/26/2020
Applicant/Owner:			ConnectGen LLC	,	·		ate: New York		102-1W
Investigator(s):		3 JD JM		Section	Township, Rar			wn of Ripley	
Landform (hillslope, terrac			ression I ocal r		-		Concave		e (%): 0-5
Subregion (LRR or MLRA)		R MLRA 139			19214718	Long:			`
Soil Map Unit Name:			hautaugua silt loar			ə	NWI classificati	-	PEM
Are climatic / hydrologic co						(If no.	explain in Remarl		<u>. — · · · · · · · · · · · · · · · · · · </u>
Are Vegetation,		• •	•				cumstances" pres	•	X No
			 naturally p				ain any answers ir		
SUMMARY OF FIND	· · · · · · · · · · · · · · · · · · ·					ns. transec	ts. important	features, etc.	
Hydrophytic Vegetation			X No		Is the Samp	·	, <u>, , , , , , , , , , , , , , , , , , </u>	,	
Hydric Soil Present?	r resent:		X No		within a We		Yes X	No	
Wetland Hydrology Pres	sent?		X No	_		nal Wetland Site		Wetland-102	_
,					, 500, 004.0.				
Remarks: (Explain alter	native procedure	s here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology Inc									
Primary Indicators (mini		ired; check a						ators (minimum of	two required)
X Surface Water (A1)	•		Water-Staine	,	(B9)			il Cracks (B6)	
High Water Table (A2)		Aquatic Faur				X Drainage P		
Saturation (A3)			Marl Deposit	` '	(0.1)			Lines (B16)	
Water Marks (B1)	(DO)		Hydrogen St			. (00)		n Water Table (C2)	
Sediment Deposits	` '		X Oxidized Rhi		_	ts (C3)	Crayfish Bu		(00)
Drift Deposits (B3)			Presence of		` ,	00)		Visible on Aerial Im	
Algal Mat or Crust	(B4)				in Tilled Soils (\	C6)		Stressed Plants (D	1)
Iron Deposits (B5)	on Aorial Imagan	, (D 7)	Thin Muck S					c Position (D2)	
Inundation Visible Sparsely Vegetated			Other (Expla	ın ın Kema	irks)		Shallow Aq	raphic Relief (D4)	
Sparsely vegetates	d Concave Suna	GE (DO)					X FAC-Neutra		
Field Observations:									
Surface Water Present?	_		X Depth (inch						
Water Table Present?	Yes _	No	X Depth (inch	· —					
Saturation Present?	Yes _	No	X Depth (inch	ies):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe)								
Describe Recorded Date	a (stream gauge,	monitoring w	ell, aerial photos, i	previous in:	spections), if a	vailable:			
	, ,	· ·							
Damanda									
Remarks:									
i .									

VEGETATION - Use scientific names of plants.				Sampling Point:102-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	That Ale OBE, I AGW, OI I AG (A)
Tree Stratum (Plot size: 30) 1.	70C0VEI	opecies:	Status	Total Number of Dominant
	-,	- -		
2.			 	Species Across All Strata: 2 (B)
3				
4	<u> </u>		·	Percent of Dominant Species
5			- 	That Are OBL, FACW, or FAC: 100.0 (A/B)
6			- 	Prevalence Index worksheet:
7				
	0	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				OBL species 40 x 1 = 40
1				FACW species x 2 = 86
2				FAC species 0 x 3 = 0
3		_		FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: <u>83</u> (A) <u>126</u> (B)
6.				Prevalence Index = B/A = 1.52
7.				Hisdunghadia Vanatatian India-ta
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		X 1 - Rapid Test for Hydrophytic Vegetation
1. Leersia oryzoides / Rice cutgrass	30	Yes	OBL	X 2 - Dominance Test is >50%
Eupatorium perfoliatum / Common boneset	30	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Scirpus cyperinus / Woolgrass	10	No	OBL	4 - Morphological Adaptations (Provide supporting
4. Impatiens capensis / Spotted jewelweed	10	No	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
5. Bidens / Beggarticks	3	No	FACW	
6			TAOW	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				
				Definitions of Vegetation Strata
10.		- -		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
We shall fire Observers (Districts	83	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1.	<u> </u>		·	size, and woody plants less than 3.28 ft tall.
2.		_	- · · · · · · · · · · · · · · · · · · ·	Woody vines - All woody vines greater than 3.28 ft in
3		_	- · · · · · · · · · · · · · · · · · · ·	height.
4			<u> </u>	
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	roport)			
Remarks: (Explain alternative procedures here of in a separate	report.)			

SOIL Sampling Point: 102-1W

Depth	Matrix		Redox	x Features			ice of indicator	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-4	10yr 3/2	90	7.5 yr 4/6	10	С	PL	Loam	
4-10	10 yr 4/1	85	5yr 4/6	15	C	PL	Loam	
10-18	N 3/1	90	5yr 4/6	10	C	PL	Clay loam	
							-	
								-
		-	-	-			-	-
			-					
								-
•		-		_		_		
ype: C=Con	centration, D=Depletion	on, RM=Redu	uced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ation: PL=Pore Lining, M=Matrix.
dric Soil In	dicators:						Indicators	s for Problematic Hydric Soils ³ :
Histosol (Polyvalue Belov	w Surface (S	3) (LRR R ,	MLRA 149		Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa					t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky N	/lineral (F1)	(LRR K, L)			Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		X Loamy Gleyed I	Matrix (F2)			Dark	Surface (S7) (LRR K, L)
	Layers (A5)		X Depleted Matrix	. ,				value Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Redox Dark Su					Dark Surface (S9) (LRR K, L)
_	rk Surface (A12)		Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depress	ions (F8)				mont Floodplain Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)							c Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Re								Parent Material (F21)
	Matrix (S6) face (S7) (LRR R, M l	I DA 440D\						Shallow Dark Surface (TF12)
_ Dark Suri	ace (57) (LKK K, WI	LKA 149D)					Other	r (Explain in Remarks)
ndicators of h	nydrophytic vegetation	and wetland	d hydrology must be p	resent, unles	s disturbed	or probler	natic.	
	ever (if observed):							
estrictive La	ayer (if observed):							
							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No
estrictive La Type: Depth (inc							Hydric Soil P	resent? Yes X No

Project/Site:	19020 -	- South Ripley		City/Coun	tv:	Chautauqua	County	Sampling Date:	08/26/2020
Applicant/Owner:		· · ·	nnectGen LLC	,	·		ate: New York		103-1U
Investigator(s):	Jl	LD,JG, JAM		Section, T	ownship, Rar			wn of Ripley	
Landform (hillslope, terrac		Hill slope	Local re		ve, convex, n		Con	Slope	e (%): 0-3
Subregion (LRR or MLRA	· · · —	RR R MLRA 139	Lat:	•	8689269	Long:	-79.744983		` '
Soil Map Unit Name:			Ashville silt loa				NWI classification		
Are climatic / hydrologic o	conditions on the	e site typical for th			No	(If no.	explain in Remark		
Are Vegetation			•	ly disturbed			cumstances" prese	•	X No
		, or Hydrology		•			ain any answers in		······································
SUMMARY OF FINE						•	•	•	
Hydrophytic Vegetation		Yes					oto, important	10414100, 0101	
Hydric Soil Present?	i Fieseiit!	Yes	NoX_ NoX	_	Is the Samp		Voc	No. V	
Wetland Hydrology Pre	sent?	Yes	NoX	_		nal Wetland Site		NoX	_
Welland Hydrology Fre	sent!		NO	_	ii yes, optioi	iai Welianu Sil	e iD		
Remarks: (Explain alte	rnative procedu	res here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology In	dicatore:								
Primary Indicators (min		auirod: abook all t	hat apply)				Socondary Indias	atore (minimum of	two required)
Surface Water (A1		quireu, crieck air ti	Water-Staine	d Leaves (F	30)			ators (minimum of I Cracks (B6)	two required)
High Water Table	•	_	Aquatic Faun	•	59)			atterns (B10)	
Saturation (A3)	(AZ)	_	Marl Deposits				Moss Trim L		
Water Marks (B1)		_	Hydrogen Su		C1)			Water Table (C2)	
Sediment Deposits	s (B2)	_	Oxidized Rhiz			ts (C3)	Crayfish Bu		
Drift Deposits (B3)		_	Presence of F	-	-	13 (00)		/isible on Aerial Im	ageny (C0)
Algal Mat or Crust		_	Recent Iron F			C6)		Stressed Plants (D	
Iron Deposits (B5)		_	Thin Muck Su		i Tilleu Solis (C0)		Position (D2)	1)
Inundation Visible			Other (Explai	, ,	(e)		Shallow Aqu		
Sparsely Vegetate	-		_ Other (Explai	III III IXCIIIaii	N3)			raphic Relief (D4)	
Oparacity vegetate	d Concave Cun	lace (Bo)					FAC-Neutra		
							_		
Field Observations:									
Surface Water Present	? Yes	NoX							
Water Table Present?		NoX	_ ' '	· -					
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes	No X
(includes capillary fring	e)								
Describe Recorded Da	ta (stream gaug	e monitoring well	l aerial photos n	revious ins	nections) if a	vailable [.]			
Describe Recorded Da	ta (Stream gaag	je, monitoring wen	i, acriai priotos, p	orcvious iris	pootions), ii d	valiable.			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 103-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Fagus grandifolia / American beech	75	Yes	FACU	Total Number of Dominant
2. Acer saccharum / Sugar maple	60	Yes	FACU	Species Across All Strata: 3 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	135	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species155 x 4 =620
4.				UPL species 0 x 5 = 0
5.				Column Totals:155 (A)620 (B)
6.				Prevalence Index = B/A = 4.0
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Acer saccharum / Sugar maple	20	Yes	FACU	2 - Dominance Test is >50%
2.				3 - Prevalence Index ≤3.0¹
		-	- -	4 - Morphological Adaptations (Provide supporting
4		_		Problematic Hydrophytic Vegetation¹ (Explain)
-		_		
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
7.			-	
8.	_	-	-	Definitions of Vegetation Strata
9.				
10.		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		_		breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1.15 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.	_			size, and woody plants less than 3.28 ft tall.
2.		_		Woody vines - All woody vines greater than 3.28 ft in
3		_		height.
4				
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Deposition / Explain alternative present was been as in a consert				
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 103-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc² (inches) Color (moist) Type¹ Texture Remarks 10yr 5/4 100 0-9 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks: Wetland 103-1W Rock and roots present

US Army Corps of Engineers

Project/Site:	19020 - South Ripl	ev	City/County:	Chautaugua	County	Sampling Date:	08/26/2020
Applicant/Owner:		•	- , , -	St	tate: New York	-	103-1W
Investigator(s):	JD JM JG		Section, Towns			vn of Ripley	
Landform (hillslope, terrae		seen Locali	_	convex, none):	Concave		(%): 0-5
· ·	LRR R MLRA				-79.745053°		`
	<u>LITTER NEI O C</u>				NWI classification		10.00
	onditions on the site typica			No (If no			
, ,	, Soil, or Hydrolo	•	tly disturbed?		cumstances" prese		. No
		gysignificant gy naturally p			ain any answers in		
					•	•	
	DINGS - Attach site r			iocations, transec	cis, important	reatures, etc.	
Hydrophytic Vegetation	Present? Yes	X No		he Sampled Area			
Hydric Soil Present?	Yes	X No	wit	hin a Wetland?	Yes X	No	_
Wetland Hydrology Pre	sent? Yes	X No	If ye	es, optional Wetland Sit	e ID:	103-1W	
Wetland 1	rnative procedures here or 03 ata point 103-1w	n a separate report.)	•				
HYDROLOGY							
Wetland Hydrology In	dicators:						
		ok all that apply)			Cocondon/Indica	ators (minimum of tw	vo required)
	imum of one required; che		ad Laguag (BO)			,	wo required)
Surface Water (A1 High Water Table	•	X Water-Staine Aquatic Faur	` '		Drainage Pa	Cracks (B6)	
Saturation (A3)	(AZ)	Marl Deposit			Moss Trim L		
Water Marks (B1)			ulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	- (P2)		izospheres on Li	vina Poeta (C3)	Crayfish Bur		
Drift Deposits (B3)			Reduced Iron (C			isible on Aerial Ima	gony (CO)
1 ' '			•	•			
Algal Mat or Crust Iron Deposits (B5)		Thin Muck S	Reduction in Tille	eu Solis (Co)	X Geomorphic	Stressed Plants (D1)
1 - ' '	on Aerial Imagery (B7)		in in Remarks)		Shallow Aqu		
		Office (Expla	iii iii Remarks)				
Sparsely vegetate	d Concave Surface (B8)				X FAC-Neutral	aphic Relief (D4)	
					A TAC-Neutral	1 1631 (D3)	
Field Observations:							
Surface Water Present	? Yes No	X Depth (inch	nes):				
Water Table Present?	Yes No	X Depth (inch	nes):				
Saturation Present?	Yes No	X Depth (inch	nes):	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	e)						
Describe Recorded Da	ta (stream gauge, monitorir	g well, aerial photos,	previous inspect	ons), if available:			
Domorko							
Remarks:							

Absolute Dominant Indicator Scover Species? Status Total Number of Dominant Species Total Number of Dominan	/EGETATION - Use scientific names of plants.				Sampling Point: 103-1W
Absolute Dominant Indicator Microser Spatius That Are OBL, FACW, or FAC: 3 (A)					Dominance Test worksheet:
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata:					Number of Dominant Species
Tree Stratum (Plot size: 30 %Cover Species? Status Total Number of Dominant Species Across All Strata:		Absolute	Dominant	Indicator	·
1.	Tree Stratum (Plot size: 30)				
Species Across Ail Strata: 4 (B)			- - '		Total Number of Dominant
3.	2				
Percent of Dominant Species That Are OBL, FACW or FAC:					Species Across Air Strata4 (B)
That Are OBL, FACW, or FAC: 75.0 (A/B)					Demont of Deminent On seize
Prevalence Index worksheet: Total Cover Sapling/Shrub Stratum (Plot size: 15) 1. Fraxinus pennsylvanica / Green ash 10 Yes FACW	· · · · · · · · · · · · · · · · · · ·				•
Trailing					That Are OBL, FACW, or FAC: 75.0 (A/B)
Total Cover Total % Cover of: Multiply by:					Dravalance Index worksheets
Saping/Shrub Stratum (Plot size: 15) 10 Yes FACW FACW FACW Species 145 X 2 = 290	7				
Factive pennsylvanica Green ash 10 Yes FACW FA		70	_ = Total Cov	er	
2.					·
## SECU Species *# SECU Species ** SECU Specie	Fraxinus pennsylvanica / Green ash	10	Yes	FACW	
Column Totals: 215	2.				
4.	3.				FACU species x 4 = 280
5. Column Totals: 215 (A) 570 (B) Prevalence Index = B/A = 2.65 Column Total Extended = 1.65 (B) Prevalence Index = B/A = 2.65 Column Total Extended = 1.65 (B) Prevalence Index = B/A = 2.65 Column Total Extended = 1.65 (B) Prevalence Index = 5.06 (B) Prevalence Index = 5.					UPL species 0 x 5 = 0
Prevalence Index = B/A = 2.65 The boundaries of the boundaries	E				Column Totals: 215 (A) 570 (B)
The foliable of the foliable o	^				Prevalence Index = B/A = 2.65
Herb Stratum (Plot size: 5 1					
Herb Stratum (Plot size:5) 1. Impatiens capensis / Spotted jewelweed 2. Leersia virginica / White grass 3.	r		T-4-1 O-1		Hydrophytic Vegetation Indicators:
Impatiens capensis / Spotted jewelweed 85 Yes FACW X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 -		10	_ = lotal Cov	er	1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed 2. Leersia virginica / White grass 3.					
2. Leersia virginica i vivnite grass 3.	- · · · · · · · · · · · · · · · · · · ·				
Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation	Leersia virginica / White grass	50	Yes	FACW	
4.	3				
5.	4.				Problematic Hydrophytic vegetation* (Explain)
6.	<i>E</i>				
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation					
8. Definitions of Vegetation Strata 9. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height. 11. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vines - All woody vines greater than 3.28 ft in height.	-				be present, unless disturbed or problematic.
9.					
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. O					Definitions of Vegetation Strata
breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. The property of the prop					
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) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.	10.				
Woody Vine Stratum (Plot size: 30) 1.					breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30) 1.	12				Sapling/shrub - Woody plants less than 3 in. DBH and
1		135	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
1	Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
2	1.				
3	2				Woody vines - All woody vines greater than 3.28 ft in
4. 0 = Total Cover Hydrophytic Vegetation	3.				
0 = Total Cover Hydrophytic Vegetation	4				insignal.
Vegetation	··		= Total Cov	or.	Hydronhytic
			_ = 10tai 00v	Ci	
Present? Yes NO					-
					Present? Yes NO
	Remarks: (Explain alternative procedures here or in a separa	ato roport.)			
(Sugar maple canopy, no trees within sampled a	area			
	ougui mapio canopy, no acco main campica c				
Sugar maple canopy, no trees within sampled area					

	Matrix			k Features			ce of indicator			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10yr 3/1	90	7.5yr 5/8	10	С	М	Loam			
10-18	10yr 6/3	60	7.5 yr 5/8	40	С	М	Loam			
										
Type: C=Cor	ncentration, D=Depletion	ı, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ition: PL=P	ore Lining, M=Ma	trix.
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydric Sc	oils³:
Histosol			Polyvalue Belov	v Surface (S	3) (LRR R,	MLRA 149E) (LRR K, L, MLF	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LRR	-
Black Hi			Loamy Mucky M			,			at or Peat (S3) (L	
	n Sulfide (A4)		Loamy Gleyed N		(,)				7) (LRR K, L)	, <u>-, 1.,</u>
	d Layers (A5)		X Depleted Matrix					-	/ Surface (S8) (L	BBK I)
	d Below Dark Surface (A	11)	X Redox Dark Sur						ce (S9) (LRR K,	
		111)	Depleted Dark S							
	ark Surface (A12) lucky Mineral (S1)							-	Masses (F12) (
	, ,		Redox Depressi	ions (Fo)					plain Soils (F19) (
	Gleyed Matrix (S4)								A6) (MLRA 144)	4, 145, 1496)
	Redox (S5)							Parent Mate		
	Matrix (S6)	DA 440D)							ark Surface (TF12)
Dark Sui	rface (S7) (LRR R, MLI	RA 149B)					Otner	(Explain ir	n Remarks)	
Indicators of	hydrophytic vegetation a	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
						·				
	ayer (if observed):								., .,	
Туре:									Yes X	No
							Hydric Soil P	resenti	Yes X	
Type: Depth (in							Hydric Soil P	resent?	1C3 <u>X</u>	
Type: Depth (in							Hydric Soil P	resentr	100 <u>X</u>	
Туре:							nyaric Soil P	resent	163 <u>X</u>	
Type: Depth (in							nyuric Soil P	resent?	163X	
Type: Depth (in							nyuric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	resent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	Tesent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	Tesent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	Tesent?	103 <u>X</u>	
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		
Type: Depth (in							nyaric Soil P	Tesent?		

Project/Site:	19020 - 3	South Ripley	City/Co	unty: C	nautauqua County	Sampling Date:	08/27/2020
Applicant/Owner:		' '	ectGen LLC	, <u> </u>	State: New York		104-1U
Investigator(s):		Detoy Josh Marchr		, Township, Range:		own of Ripley	
Landform (hillslope, terra				cave, convex, none			(%): 0-5
Subregion (LRR or MLRA				2.18956961			· /
Soil Map Unit Name:			isti silt loam 3-8%		NWI classifica		14712 00
Are climatic / hydrologic of				Y No	(If no, explain in Rema		
, ,		,,	significantly disturb		'Normal Circumstances" pre		No
			significantly disturb naturally problemat		eeded, explain any answers		110
					• •	•	
SUMMART OF FIN	DINGS - Attac	on site map sno	owing sampling		, transects, importan	t reatures, etc.	
Hydrophytic Vegetation	n Present?	Yes		Is the Sampled	Area		
Hydric Soil Present?		Yes	No X	within a Wetlar	nd? Yes	No X	
Wetland Hydrology Pre	esent?	Yes	No X	If yes, optional \	Wetland Site ID:		
Pomarka: (Evalain alto	ornativo procedure	os horo or in a sona	rato roport)				
Remarks: (Explain alte	emative procedure	ss nere or in a separ	rate report.)				
HYDROLOGY							
Wetland Hydrology Ir	ndicators:						
Primary Indicators (mir		uired: check all that	apply)		Secondary Indi	cators (minimum of tv	vo required)
Surface Water (A:		•	Water-Stained Leaves	(B9)		oil Cracks (B6)	
High Water Table	,		Aquatic Fauna (B13)	(20)		Patterns (B10)	
Saturation (A3)	(/ 12)		Marl Deposits (B15)			Lines (B16)	
Water Marks (B1))		Hydrogen Sulfide Odo	or (C1)		on Water Table (C2)	
Sediment Deposit			Oxidized Rhizosphere			Burrows (C8)	
Drift Deposits (B3			Presence of Reduced	-	- •	i Visible on Aerial Ima	geny (CQ)
Algal Mat or Crus	•		Recent Iron Reduction	` ,		r Stressed Plants (D1	
_ ·				` '		•	1
Iron Deposits (B5	•		Thin Muck Surface (C	•		nic Position (D2)	
Inundation Visible	-		Other (Explain in Rem	iarks)		quitard (D3)	
		ice (B8)				graphic Relief (D4)	
Sparsely Vegetate	ed Concave Surfa						
Sparsely vegetate	ed Concave Surfa				FAC-Neut	ral Test (D5)	
Field Observations:	ed Concave Surfa				FAC-Neut	rai Test (D5)	
			Depth (inches):		FAC-Neut	rai Test (D5)	
Field Observations:	t? Yes	NoX	· · · · / —		FAC-Neut	rai lest (D5)	
Field Observations: Surface Water Present Water Table Present?	t? Yes _ Yes _	No X No X	Depth (inches):	w			No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes Yes Yes	NoX	· · · · · · · · · · · · · · · · · · ·	w	etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present?	t? Yes Yes Yes	No X No X	Depth (inches):	w			No X
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No <u>X</u>
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		NoX
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X No X No X	Depth (inches):		etland Hydrology Present?		No X

VEGETATION - Use scientific names of plants.				Sampling Point:104-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Trop Stratum (Plot size: 20	%Cover			That Are OBL, FACW, or FAC:1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	Total Number of Density and
1				Total Number of Dominant
2.				Species Across All Strata: 3 (B)
3				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.3 (A/B)
6				
7				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0
1				FACW species 40 x 2 = 80
2.				FAC species 10 x 3 = 30
3.				FACU species 90 x 4 = 360
4.				UPL species 5 x 5 = 25
5.				Column Totals:145 (A)495 (B)
				Prevalence Index = B/A = 3.41
6. 7.				
· .	0	= Total Cov	or .	Hydrophytic Vegetation Indicators:
Harb Stratum (Plot size: 5		_ = 10(a) C0V	CI	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5	00	V	FACIL	2 - Dominance Test is >50%
1. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil	60	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Cornus amomum / Silky dogwood	40	Yes	FACW	4 - Morphological Adaptations (Provide supporting
3. Trifolium pratense / Red clover	30	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4. Apocynum cannabinum / Indian hemp	10	No	FAC	<u> </u>
5. Daucus carota / Carrot, Carrot, Queen anne's lace	5	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				bo procent, unloss distarbed or problematic.
8.				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.	- '			breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
		= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3		-		Woody vines - All woody vines greater than 3.28 ft in height.
4.				neight.
T	0	= Total Cov		Hydrophytic
		_ = 10tal Cov	er	
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	roport)			
inciniarks. (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 104-1U

Depth	Matrix		eded to document th Redox	Features				•
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 5/3	90	7.5 YR 5/8	10	C	M	Silt loam	
							_	
				· ——				
				· ——				
				· ——				
								
Type: C=Cond	centration, D=Depletior	n, RM=Redu	ıced Matrix, MS=Mask	ed Sand Gra	ains.		²Loca	tion: PL=Pore Lining, M=Matrix.
ydric Soil In	dicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol (Polyvalue Below	Surface (S8) (LRR R.I	MLRA 149E		Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surface	•			· —	t Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			,		Mucky Peat or Peat (S3) (LRR K, L, R)
_	Sulfide (A4)		Loamy Gleyed N		, _ ,			Surface (S7) (LRR K, L)
	Layers (A5)		Depleted Matrix					alue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	(11)	Redox Dark Sur					Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	,	Depleted Dark S					Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi					nont Floodplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Rodox Boprood	0110 (1 0)				Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re								Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149R)						(Explain in Remarks)
	(27) (2111111, 1112	1011102,						(Explain in Foliatio)
				occut unloc	e dicturbed	or problem	atic	
Indicators of h	nydrophytic vegetation	and wetland	I hydrology must be pr	esent, unles	s distuibed	or bropieri	auc.	
		and wetland	I hydrology must be pr	esent, unies	s distuibed	or problem		
Restrictive La	ayer (if observed):			esent, unles	s disturbed	or problem	auc.	
Restrictive La	ayer (if observed):			esent, unles	s distarbed	or problem		recent? Voc. No. V
estrictive La	ayer (if observed):			esent, unles	s distarbed	or problem	Hydric Soil P	resent? Yes NoX
estrictive La Type: Depth (inc	ayer (if observed):			esent, unles	s distuibed	or problem		resent? Yes No X
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unies	s distuibed	or problem		resent? Yes NoX
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unles	s disturbed	ОГРЮВЕН		resent? Yes NoX
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes NoX
testrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No <u>X</u>
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistarbea	or problem		resent? Yes NoX
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistarbea	or problem		resent? Yes NoX
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistarbea	or problem		resent? Yes NoX
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistarbea	or problem		resent? Yes No X
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistarbeu	or problem		resent? Yes No X
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistanea	or problem		resent? Yes No X
estrictive La Type: Depth (incl	ayer (if observed):			esent, unies	Suistarbeu	or problem		resent? Yes No X
estrictive La Type: Depth (incl	ayer (if observed):			esent, unies	Suistarbeu	or problem		resent? Yes No X
estrictive La Type: Depth (incl	ayer (if observed):			esent, unies	Suistaneeu	or problem		resent? Yes No X
estrictive La Type: Depth (incl	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X
testrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No _X
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No _X
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suistanea	or problem		resent? Yes No X
Restrictive La	ayer (if observed):			esent, unies	Suistanea	or problem		resent? Yes No X
Restrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X
estrictive La Type: Depth (incl	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X
estrictive La Type: Depth (inc	ayer (if observed):			esent, unies	Suisturbeu	or problem		resent? Yes No X

Project/Site:	19020	0 - South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	08/27/2020
Applicant/Owner:			ConnectGen LLC	, ,	·	•	ate: New York	· · ·	104-1W
Investigator(s):		ess Detoy Josh M		Section.	Township, Rar			wn of Ripley	
Landform (hillslope, terra					ave, convex, n		Concave		: (%): 0-5
Subregion (LRR or MLRA		LRR R MLRA 139			18965315	Long:	-79.744250		
Soil Map Unit Name:	,		Busti silt loam 3				NWI classificati		
Are climatic / hydrologic	conditions on t	the site typical for			X No	(If no.	explain in Remarl	-	
Are Vegetation			•			` '	cumstances" pres	•	X No
			 naturally p				ain any answers ir		
SUMMARY OF FIN						-	•	•	
Hydrophytic Vegetation						•	то, ппротопп		
Hydric Soil Present?	ii Pieseiit?		X No		Is the Samp within a We		Voo V	No	
,	raaant?			_			Yes X	No Wetland-104	_
Wetland Hydrology Pro	esent?	Yes	X No	_	ii yes, opiioi	nal Wetland Site	. ID.	vvetianu-104	
Remarks: (Explain alte	ernative proced	dures here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi	nimum of one	required; check a	ll that apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A	.1)		Water-Staine	d Leaves ((B9)		Surface So	il Cracks (B6)	
High Water Table	(A2)		Aquatic Faun	na (B13)			X Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposits	s (B15)			Moss Trim	Lines (B16)	
Water Marks (B1))		Hydrogen Su	Ilfide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposi	ts (B2)		X Oxidized Rhiz	zospheres	on Living Roo	ts (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3	3)		Presence of I	Reduced Ir	ron (C4)		Saturation '	Visible on Aerial Ima	agery (C9)
Algal Mat or Crus	st (B4)		Recent Iron F	Reduction i	in Tilled Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5	i)		Thin Muck Su	urface (C7))		X Geomorphi	c Position (D2)	
Inundation Visible	e on Aerial Ima	gery (B7)	Other (Explai	in in Rema	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetat	ed Concave Su	urface (B8)					Microtopog	raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Presen	ıt? Ye	es No	X Depth (inch	P8).					
Water Table Present?			X Depth (inch		-				
Saturation Present?	Ye		X Depth (inch	· -	-	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring		140	Z Depair (more		-	Wedana nya	rology i resemi.	103 <u>X</u>	
(morado dapinar y mm)									
Describe Recorded Da	ata (stream gaı	uge, monitoring w	/ell, aerial photos, p	orevious ins	spections), if a	vailable:			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:104-1W
Tree Stratum (Plot size:30) 123		_		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
7	0	= Total Cov	er	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 FACW species 65 x 2 = 130 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 90 (A) 155 (B)
6. 7.				Prevalence Index = B/A = 1.72 Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 1. Onoclea sensibilis / Sensitive fern 2. Rubus hispidus / Bristly dewberry 3. Typha / Cattail 4. Scirpus cyperinus / Woolgrass 5. Juncus / Rush 6.		Yes Yes No No No	FACW FACW OBL OBL FACW	 X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:				greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4.	0	= Total Cov	er	Hydrophytic Vegetation Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

 SOIL
 Sampling Point: ____104-1W

Depth	ription: (Describe to th Matrix			x Features	J. 34	2200110		,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	_	Remarks	
0-2	10YR 2/2	100					Peaty			
2-8	10YR 4/1	85	7.5YR 4/6	15	С	PL,M	Loam			
				_						
				_						
Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ition: PL=F	ore Lining, M=M	1atrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R	MLRA 149E) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa					-	edox (A16) (LR	-
	stic (A3)		Loamy Mucky N			-			at or Peat (S3) (
	en Sulfide (A4)		Loamy Gleyed		,, _ /				37) (LRR K, L)	
	d Layers (A5)		X Depleted Matrix					•	v Surface (S8) (I BB K I)
	d Below Dark Surface (A	\11\	Redox Dark Su						ce (S9) (LRR K	
		111)	Depleted Dark						e Masses (F12)	
	ark Surface (A12)							ū	, ,	
	Mucky Mineral (S1)		Redox Depress	sions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)								erial (F21)	10)
	Matrix (S6)								ark Surface (TF1	12)
Dark Su	rface (S7) (LRR R, ML	.RA 149B)					Other	(Explain i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	hvdrology must be p	resent. unles	ss disturbed	d or problema	atic.			
			, , , , , , , , , , , , , , , , , , , ,							
	ayer (if observed):									
Type:	1 \								., .,	
Depth (in	ches):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										
	Refusal at 8"									

Applicant/Owner: ConnectGen LLC State: New York Sampling Point: 104-2U nvestigator(s): Joe Gallo Jess Detoy Josh Marchner Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc): Hillslope Local relief (concave, convex, none): Convex Slope (%): 0-5 Subregion (LRR or MLRA): LRR MLRA 139 Lat: 42.18949967 Long: -79.74486476 Datum: NAD 83 Soil Map Unit Name: Busti silt loam 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 Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.)	Project/Site:	19020 - South Ripley	City/County:	Chautaugua County	Sampling Date: 08/27/2020
Landform (fillslope, terrace, etc): Hillslope	Applicant/Owner:	ConnectGen LL	_ · ·		- · ·
Subregion (LRR or MLRA): LRR MLRA 139	Investigator(s): Joe (Gallo Jess Detoy Josh Marchner	Section, Township, F	Range: T	own of Ripley
Subregion (LRR or MLRA): LRR MLRA 139		: Hillslope Loc	al relief (concave, convex	k, none): Convex	Slope (%): 0-5
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	Subregion (LRR or MLRA):		42.18949967	Long: -79.74486	476 Datum: NAD 83
Are Vegetation Soil or Hydrology significantly disturbed? Are Yournal Circumstances' present? Yes X No naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attack site map showing sampling point locations, transacts, important features, etc. Hydrophylic Vegetation Present? Yes X No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland? Yes No X HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Sufface Water (A1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Odized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sunted or Stressed Plants (D1) In no Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) In undation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Soil Map Unit Name:	Busti silt lo	am	NWI classifica	tion:
Are Vegetation		ns on the site typical for this time of yea	r? Yes X N	lo (If no, explain in Rema	rks.)
Sufface Water (A1)	Are Vegetation , Soil	, or Hydrology significa	antly disturbed?	Are "Normal Circumstances" pres	sent? Yes X No
Hydrophytic Vegetation Present? Yes No X No Within a Wetland? Yes No X No Wetland Hydrology Present? Yes No X No Wetland Hydrology Present? Yes No X No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators:	Are Vegetation , Soil	, or Hydrology naturall	y problematic?	(If needed, explain any answers i	n Remarks.)
Hydrophytic Vegetation Present? Yes No X No Within a Wetland? Yes No X No Wetland Hydrology Present? Yes No X No Wetland Hydrology Present? Yes No X No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators:	SUMMARY OF FINDINGS	S - Attach site map showing s	ampling point loca	tions, transects, important	t features, etc.
Hydric Soil Present? Yes X No X If yes, optional Wetland? Yes No X Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Pield Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? No Inches (B4) Available: Wetland Hydrology Present? Yes No X Depth (inches):		•		-	·
Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY	, , , ,			•	No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Saturation (A3) Mant Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Aquatic Fauna (B13) Trainage Patterns (B10) Moss Trim Lines (B16) Drainage Patterns (B10) Moss Trim Lines (B16) Dray-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Vater Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					<u> </u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Deposits (B15) Water Additional Deposits (B15) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X No X No X No X No X Depth (inches): Wetland Hydrology Present? Yes No X			, , , , , ,		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record	Remarks: (Explain alternative	procedures here or in a separate report	.)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Shallow Aquitard (D3) Microtopographic Relief (D4) Factored Data (Stream gauge, Monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Presence of Reduced Iron (C4) Describe Record					
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	HYDROLOGY				
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Wetland Hydrology Indicato	rs:			
Surface Water (A1)				Secondary Indi	cators (minimum of two required)
High Water Table (A2)	-		ined Leaves (B9)		• • • • • • • • • • • • • • • • • • • •
Saturation (A3)	<u> </u>		` '	·——	
Water Marks (B1)	- -				
Sediment Deposits (B2)					· · ·
Drift Deposits (B3)					· ·
Algal Mat or Crust (B4)	_ · · · · ·			- · · · - ·	
Iron Deposits (B5)					
Inundation Visible on Aerial Imagery (B7)	_ ·			· · · —	· ·
Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) FAC-Neutral Test (D5) Factor Fac	_ · · · · ·		` '		·
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			,		
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				FAC-Neuti	ral Test (D5)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-				
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		V N V D II (
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		· ` `	· ———		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		: `	· —		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Yes NoX Depth (in	iches):	Wetland Hydrology Present?	Yes NoX
	(includes capillary fringe)				
	Describe Recorded Data (stre	am gauge, monitoring well, aerial photo	s. previous inspections).	if available:	
Remarks:	(()	gg g p	-, p , ,		
Remarks:					
	Remarks:				

	Dominance Test worksheet:
	Number of Dominant Species
Absolute Dominant Indicator	That Are OBL, FACW, or FAC: 1 (A)
Stratum (Plot size: 30) %Cover Species? Status	Illatale ODL, FACIV, OLLAC.
Stratum (Fior size	- Total Number of Deminant
	Total Number of Dominant
	Species Across All Strata: 2 (B)
	-
	Percent of Dominant Species
	That Are OBL, FACW, or FAC: 50.0 (A/B
	Prevalence Index worksheet:
= Total Cover	Total % Cover of: Multiply by:
ng/Shrub Stratum (Plot size: 15)	OBL species 0 x 1 = 0
	FACW species 0 x 2 = 0
	FAC species 60 x 3 = 180
	FACU species 50 x 4 = 200
	UPL species15 x 5 =75
	Column Totals: 125 (A) 455 (B
	Prevalence Index = B/A = 3.64
0 - Total Cover	Hydrophytic Vegetation Indicators:
O = Total Cover	1 - Rapid Test for Hydrophytic Vegetation
Stratum (Plot size: 5	2 - Dominance Test is >50%
lidago rugosa / Wrinkle-leaf goldenrod 60 Yes FAC	3 - Prevalence Index ≤3.0¹
bus / Blackberry 40 Yes FACU	4 - Morphological Adaptations (Provide supporting
octylis glomerata / Orchardgrass 10 No FACU	<u> </u>
agaria vesca / Wild strawberry, Wood strawberry 10 No UPL	Problematic Hydrophytic Vegetation¹ (Explain)
aucus carota / Carrot, Carrot, Queen anne's lace 5 No UPL	
	Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
	_ Definitions of Vegetation Strata
	-
	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
	breast height (DBH), regardless of height.
405 T-t-1 O	Sapling/shrub - Woody plants less than 3 in. DBH and
125 = Total Cover	greater than or equal to 3.28 ft (1 m) tall.
y Vine Stratum (Plot size: 30)	Herb - All herbaceous (non-woody) plants, regardless of
	size, and woody plants less than 3.28 ft tall.
	Woody vines - All woody vines greater than 3.28 ft in
	height.
0 = Total Cover	Hydrophytic
	Vegetation
	Present? Yes No X
	11000111

SOIL Sampling Point: 104-2U

Depth	ription: (Describe to the Matrix		Redox	r Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-12	10YR 5/3	95	7.5 YR 5/8	5	С	М	Silt loam			
				· -			_			
	· · ·									
Type: C=Cor	ncentration, D=Depletion,	, RM=Redu	ced Matrix, MS=Mask	ked Sand Gra	ains.		²Loca	ation: PL=P	ore Lining, M=Matri	х.
ludeia Cail I	n dia atawa .						lu di a ata u	for Droble	tia Iluduia Cail	-3.
Hydric Soil I			Delvarelue Delev	. Curfoss (CC		MI DA 440E			ematic Hydric Soil	
Histosol	•		Polyvalue Belov) (LRR K, L, MLRA	-
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LRR K	
Black Hi			Loamy Mucky M		LKK K, L)				at or Peat (S3) (LRI	κ κ, L, R)
	en Sulfide (A4)		Loamy Gleyed N					•	7) (LRR K, L)	3 K 1 \
	d Layers (A5)	4.4.\	X Depleted Matrix						Surface (S8) (LRI	
	d Below Dark Surface (A	11)	Redox Dark Sur						ce (S9) (LRR K, L)	
	ark Surface (A12)		Depleted Dark S					-	Masses (F12) (LI	
	Mucky Mineral (S1)		Redox Depressi	ons (F8)				-	olain Soils (F19) (M	
	Gleyed Matrix (S4)								A6) (MLRA 144A,	145, 1496)
	Redox (S5)							Parent Mate		
	Matrix (S6)	A 440D)							rk Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLR	(A 149B)					Other	(Explain if	n Remarks)	
Indicators of	hydrophytic vegetation a	nd wetland	hydrology must be n	recent unles	e dieturhad	or problems	atic			
Tridicators of	Trydrophytic vegetation a	ina wettana	Trydrology made be p	Tesent, ames	- distarbed	or problem				
Restrictive L	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:						<u> </u>				
	Rock refusal, multiple loc	ations								

Project/Site:	1902	20 - South Riple	У		City/Cou	nty:	Chautaugua	County	Sampling Date:	08/27/2020
Applicant/Owner:		•	Conne	ctGen LLC	•		St	ate: New York		104-2W
Investigator(s):		JAM JD JG			Section,	Township, Ra	nge:	To	wn of Ripley	
Landform (hillslope, terra	ace, etc):		е	Local r		ave, convex, r		concave		e (%): 3-8
Subregion (LRR or MLR		LRR R MLRA 1	39	Lat:		18928347	Long:	-79.743850		
Soil Map Unit Name:	·			Busti silt loan				NWI classificati		
Are climatic / hydrologic	conditions on	the site typical	for this ti	me of year?	Yes	X No	(If no.	– , explain in Remar		
Are Vegetation	, Soil	, or Hydrolog	٧	significantl	y disturbe	d? /	Are "Normal Cir	cumstances" pres	ent? Yes	X No
		, or Hydrolog					If needed, expl	ain any answers ir	n Remarks.)	
SUMMARY OF FIN							ons. transec	cts. important	features, etc.	
Hydrophytic Vegetation		Yes	Х			Is the Sami		, <u>,</u>		
Hydric Soil Present?	iii i icaciit:	Yes	X	No		within a We		Yes X	No	
Wetland Hydrology Pr	recent?	Yes	X	No	_		nal Wetland Sit		104	_
Remarks: (Explain alto		edures here or ir	ı a separ			7,			-	
HYDROLOGY										
Wetland Hydrology I	ndicators:									
Primary Indicators (mi		required: check	all that	annly)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A		roquirou, oriooi		Water-Staine	d Leaves ('B9)		X Surface So		wo roquirou)
High Water Table	,			Aquatic Faun		(20)			atterns (B10)	
Saturation (A3)	,			Marl Deposits					Lines (B16)	
Water Marks (B1)			Hydrogen Su		(C1)			n Water Table (C2)	
Sediment Depos	its (B2)			Oxidized Rhiz	zospheres	on Living Roc	ots (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B	3)			Presence of I	Reduced I	ron (C4)		Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or Crus	st (B4)			Recent Iron F	Reduction i	in Tilled Soils	(C6)	Stunted or	Stressed Plants (D	1)
Iron Deposits (B	5)			Thin Muck Su	urface (C7)		Geomorphi	c Position (D2)	
Inundation Visible	e on Aerial Im	agery (B7)	(Other (Explai	n in Rema	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetat	ted Concave S	Surface (B8)						Microtopog	raphic Relief (D4)	
								X FAC-Neutra	al Test (D5)	
Field Observations:										
Surface Water Preser	nt? Y	res No	Х	Depth (inch	es).					
Water Table Present?		res No		Depth (inch						
Saturation Present?		res No		Depth (inch	· —		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary frin				2 opt (o					.00	
(
Describe Recorded D	ata (stream ga	auge, monitoring	g well, ae	erial photos, p	revious in	spections), if a	available:			
Remarks:										
remarks.										

Number of Dominant Species Are OBL, FACW, or FAC: 4
Are OBL, FACW, or FAC: A
Number of Dominant les Across All Strata: 4 (B) ent of Dominant Species Are OBL, FACW, or FAC: 100.0 (A/B) alence Index worksheet: Total % Cover of: Multiply by: species 0 x1 = 0 V species 35 x2 = 70 species 95 x3 = 285 J species 0 x4 = 0 species 0 x5 = 0 nn Totals: 130 (A) 355 (B)
A
A
ent of Dominant Species Are OBL, FACW, or FAC: 100.0
Are OBL, FACW, or FAC: 100.0 (A/B) Alence Index worksheet: Total % Cover of: Multiply by: Species 0 x 1 = 0 V species 35 x 2 = 70 Species 95 x 3 = 285 J species 0 x 4 = 0 Species 0 x 5 = 0 Inn Totals: 130 (A) 355 (B)
Are OBL, FACW, or FAC: 100.0 (A/B) Alence Index worksheet: Total % Cover of: Multiply by: Species 0 x 1 = 0 V species 35 x 2 = 70 Species 95 x 3 = 285 J species 0 x 4 = 0 Species 0 x 5 = 0 Inn Totals: 130 (A) 355 (B)
Alence Index worksheet: Total % Cover of: Species 0 x 1 = 0 V species 35 x 2 = 70 Species 95 x 3 = 285 J species 0 x 4 = 0 Species 0 x 5 = 0 Inn Totals: 130 (A) 355 (B)
Total % Cover of: Multiply by: species 0 x 1 = 0 V species 35 x 2 = 70 species 95 x 3 = 285 J species 0 x 4 = 0 species 0 x 5 = 0 nn Totals: 130 (A) 355 (B)
Total % Cover of: Multiply by: species 0 x 1 = 0 V species 35 x 2 = 70 species 95 x 3 = 285 J species 0 x 4 = 0 species 0 x 5 = 0 nn Totals: 130 (A) 355 (B)
species 0 x 1 = 0 V species 35 x 2 = 70 species 95 x 3 = 285 J species 0 x 4 = 0 species 0 x 5 = 0 nn Totals: 130 (A) 355 (B)
V species 35 x 2 = 70 species 95 x 3 = 285 J species 0 x 4 = 0 species 0 x 5 = 0 nn Totals: 130 (A) 355 (B)
species 95 x 3 = 285 J species 0 x 4 = 0 species 0 x 5 = 0 nn Totals: 130 (A) 355 (B)
Uspecies 0 $x 4 =$ 0 species 0 $x 5 =$ 0 nn Totals: 130 (A) 355 (B)
species $0 \times 5 = 0$ nn Totals: $130 \times 6 \times 5 = 0$
nn Totals: 130 (A) 355 (B)
``
Prevalence Index = B/A = 2.73
ophytic Vegetation Indicators:
I - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
3 - Prevalence Index ≤3.0¹
I - Morphological Adaptations (Provide supporting
Problematic Hydrophytic Vegetation¹ (Explain)
ators of hydric soil and wetland hydrology must
esent, unless disturbed or problematic.
itions of Vegetation Strata
- Woody plants 3 in. (7.6 cm) or more in diameter at
t height (DBH), regardless of height.
ng/shrub - Woody plants less than 3 in. DBH and
er than or equal to 3.28 ft (1 m) tall.
- All herbaceous (non-woody) plants, regardless of
and woody plants less than 3.28 ft tall.
dy vines - All woody vines greater than 3.28 ft in
t.
ophytic
tation
ent? Yes <u>X</u> No
1

SOIL Sampling Point: 104-2W

Depth	ription: (Describe to the Matrix			k Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 3/1	95	7.5YR 4/4	5	С	М	loam			
6-15	10YR 6/1	70	7.5YR 6/6	30	С	М	loam			
Type: C=Co	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=N	Matrix.
ludeia Cail I							lu di a ata u	for Drobl	amatia Hudwia	Calla3.
Hydric Soil I			Daharahaa Dalaa	·· 0· ···f /0/	o)	MI DA 440F			ematic Hydric	
Histosol	` '		Polyvalue Belov) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LR	
	istic (A3)		Loamy Mucky N		(LKK K, L)				at or Peat (S3)	(LKK K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	(37) (LRR K, L)	(1 DD 14 1)
	d Layers (A5)	A 44)	X Depleted Matrix						v Surface (S8)	
	d Below Dark Surface (A	4 11)	X Redox Dark Sur						ce (S9) (LRR I	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)								erial (F21)	12)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149D)					Othe	i (⊏xpiaiii ii	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problema	atic.			
						·				
	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020	0 - South Ripley		City/Cou	nty:	Chautauqua (County	Sampling Date:	08/27/2020						
Applicant/Owner:			ConnectGen LLC		-	•	State: New York Sampling Point: 104								
Investigator(s):		JAM JD JG			Township, Ran		-	wn of Ripley							
Landform (hillslope, terra	ace, etc):		Local		ave, convex, n		concave		(%): 0-3						
Subregion (LRR or MLR		RR R MLRA 13			19013672	Long:	-79.743674		`						
Soil Map Unit Name:	, <u> </u>		Busti silt loa				NWI classificati								
Are climatic / hydrologic	conditions on t	he site typical fo			X No	(If no,	explain in Remarl								
Are Vegetation			•				cumstances" pres	•	K No						
			naturally				ain any answers ir								
SUMMARY OF FIN						-	-	•							
					Is the Samp		,p =								
Hydrophytic Vegetatio Hydric Soil Present?	iii Present?	Yes Yes	X No		within a We		Voo V	No							
Wetland Hydrology Pr	rocent?	Yes	X No			uanu r ial Wetland Site	Yes X	No 104	_						
,					ii yes, opiioi	iai welianu Sile	e ID	104							
Remarks: (Explain alte 104-3W.	ernative proced PFO datapoint		a separate report.)												
HYDROLOGY															
Wetland Hydrology I	ndicators:														
Primary Indicators (mi	inimum of one	required; check	all that apply)				Secondary Indic	ators (minimum of t	wo required)						
Surface Water (A	1)		X Water-Stair	ned Leaves	(B9)		X Surface So	il Cracks (B6)							
High Water Table	(A2)		Aquatic Fat	ına (B13)			Drainage P	atterns (B10)							
Saturation (A3)			Marl Depos	its (B15)			Moss Trim	Lines (B16)							
Water Marks (B1)		Hydrogen S	Sulfide Odor	(C1)		Dry-Seasor	n Water Table (C2)							
Sediment Deposi	its (B2)		Oxidized R	hizospheres	on Living Roof	ts (C3)	Crayfish Bu	` '							
Drift Deposits (B3	3)		Presence o	f Reduced I	ron (C4)		Saturation	Visible on Aerial Ima	agery (C9)						
Algal Mat or Crus	st (B4)		Recent Iron	Reduction	in Tilled Soils (C6)	Stunted or	Stressed Plants (D1	1)						
Iron Deposits (B5	-			Surface (C7	•			c Position (D2)							
Inundation Visible			Other (Expl	ain in Rema	ırks)		Shallow Aq								
Sparsely Vegetat	red Concave Su	urface (B8)						raphic Relief (D4)							
							X FAC-Neutra	al Test (D5)							
Field Observations:															
Surface Water Presen	ıt? Y€	es No _	X Depth (inc	ches):											
Water Table Present?	Ye	es No _	X Depth (inc	ches):											
Saturation Present?	Ye	es No _	X Depth (inc	ches):		Wetland Hyd	rology Present?	Yes X	No						
(includes capillary fring	ge)														
Describe Recorded Da	ata (etroam gai	ugo monitoring	well aerial photos	provious in	enactions) if a	vailable:									
Describe Recorded Da	ala (Siream yal	age, monitoring	weii, aeriai priotos	, previous iri	ispections), ii a	valiable.									
Remarks:															

VEGETATION - Use scientific names of plants.				Sampling Point: 104-3W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 7 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Acer rubrum / Red maple	30	Yes	FAC	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	20	Yes	FACW	Species Across All Strata: 7 (B)
3.				(,,
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	50	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		=		OBL species0 x 1 =0
1. Cornus racemosa / Gray dogwood	30	Yes	FAC	FACW species 45 x 2 = 90
2. Crataegus / Hawthorn	10	Yes	FAC	FAC species100 x 3 =300
3.	• •			FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
		_		Column Totals: 145 (A) 390 (B)
				Prevalence Index = B/A = 2.69
6. 7.		<u> </u>		
	40	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ 10101 001	Ci	1 - Rapid Test for Hydrophytic Vegetation
1. Cornus racemosa / Gray dogwood	25	Yes	FAC	X 2 - Dominance Test is >50%
Fraxinus pennsylvanica / Green ash	25	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3.		103	TAOW	4 - Morphological Adaptations (Provide supporting
1				Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
•				
0				Definitions of Vegetation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12	50	- Total Cav		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vino Stratum (Plot size: 20	50	_ = Total Cov	ei	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30) 1. Toxicodendron radicans / Eastern poison ivy	5	Voo	FAC	Herb - All herbaceous (non-woody) plants, regardless of
		Yes	FAC	size, and woody plants less than 3.28 ft tall.
2.		- -	-	Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4		T-4-1 O		Unidendia
	5	_ = Total Cov	er	Hydrophytic
				Vegetation Present? Yes X No
				Present? Yes X No No
Remarks: (Explain alternative procedures here or in a separate	report)			
Tromaine. (Explain alternative procedures field of in a coparate	тороги,			

SOIL Sampling Point: 104-3W

Depth	ription: (Describe to the Matrix			k Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 3/1	95	7.5YR 4/4	5	С	М	loam			
6-15	10YR 6/1	70	7.5YR 6/6	30	С	М	loam			
Type: C=Co	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=N	Matrix.
ludeia Cail I							lu di a ata u	for Drobl	amatia Hudwia	Calla3.
Hydric Soil I			Dalamahaa Dalam	·· O· ···f /O/	o)	MI DA 440F			ematic Hydric	
Histosol	` '		Polyvalue Belov) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LR	
	istic (A3)		Loamy Mucky N		(LKK K, L)				at or Peat (S3)	(LKK K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	(37) (LRR K, L)	(1 DD 14 1)
	d Layers (A5)	A 44)	X Depleted Matrix						v Surface (S8)	
	d Below Dark Surface (A	411)	X Redox Dark Sur						ce (S9) (LRR I	
	ark Surface (A12)		Depleted Dark S					-		(LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi	ions (F8)) (MLRA 149B)
	Gleyed Matrix (S4)									I4A, 145, 149B)
	Redox (S5)								erial (F21)	12)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149D)					Othe	i (⊏xpiaiii ii	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	d hydrology must be p	resent. unles	s disturbed	or problema	atic.			
						·				
	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020 - S	South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	08/27/2020
Applicant/Owner:		C	ConnectGen LLC	•		Sta	ate: New York	Sampling Point:	104-4W
Investigator(s):		M JD JG		Section,	Township, Ra	nge:	To	wn of Ripley	
Landform (hillslope, terrac	e, etc): ch	nannel abando	ned Local re		ave, convex, r		concave	Slope	e (%): 3-5
Subregion (LRR or MLRA)	· · · · · · · · · · · · · · · · · · ·	R MLRA 139	 Lat:		18927997	Long:	-79.744918		
Soil Map Unit Name:			Busti silt loan	n			NWI classificati	ion:	
Are climatic / hydrologic co	onditions on the s	site typical for	this time of year?	Yes 2	X No	(If no,	explain in Remar	ks.)	
Are Vegetation ,	Soil , c	or Hydrology	significantl	y disturbed	d? /	Are "Normal Cir	cumstances" pres	ent? Yes	X No
			naturally p	roblematic	? (If needed, expla	ain any answers ir	n Remarks.)	
SUMMARY OF FIND		_				ons, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes >			Is the Sam			·	
Hydric Soil Present?			No No	_	within a We		Yes X	No	
Wetland Hydrology Pres	sent?	Yes >				nal Wetland Site		104-4W PSS	_
Remarks: (Explain alteri 104-4W. P	native procedure SS datapoint	s here or in a	separate report.)						
HYDROLOGY									
Wetland Hydrology Inc	dicators:								
Primary Indicators (mini	mum of one requ	uired; check all	that apply)				Secondary Indic	ators (minimum of	two required)
X Surface Water (A1))		Water-Staine	d Leaves ((B9)		Surface So	il Cracks (B6)	
X High Water Table (A2)		Aquatic Faun	a (B13)			Drainage P	atterns (B10)	
X Saturation (A3)			Marl Deposits	s (B15)			Moss Trim	Lines (B16)	
Water Marks (B1)			Hydrogen Su	Ifide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposits	(B2)		Oxidized Rhiz	zospheres	on Living Roo	ots (C3)		ırrows (C8)	
Drift Deposits (B3)			Presence of I		` '			Visible on Aerial Im	
Algal Mat or Crust	(B4)				n Tilled Soils	(C6)		Stressed Plants (D	1)
Iron Deposits (B5)			Thin Muck Su					c Position (D2)	
Inundation Visible			Other (Explai	n in Rema	rks)		Shallow Aq		
Sparsely Vegetated	d Concave Surfa	ce (B8)						raphic Relief (D4)	
							X FAC-Neutra	al lest (D5)	
Field Observations:									
Surface Water Present?	Yes _	X No	Depth (inch	es):	1				
Water Table Present?	Yes _	X No	Depth (inch	es):	1				
Saturation Present?	Yes _	X No	Depth (inch	es):	0	Wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	e)								
Describe Recorded Data	a (etream gauge	monitoring we	all aprial photos r	revious in	enactions) if a	wailahla:			
Describe Recorded Data	a (Sileaili gauge,	, monitoring we	eli, aeriai priotos, p	nevious in	spections), ii a	ivaliable.			
Remarks:									
1									

VEGETATION - Use scientific names of plants.				Sampling Point:104-4W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 7 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
Prunus serotina / Black cherry	10	Yes	FACU	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	5	Yes	FACW	Species Across All Strata: 8 (B)
3	_			
4				Percent of Dominant Species
5	_	_	<u> </u>	That Are OBL, FACW, or FAC: 87.5 (A/B)
6.				
7				Prevalence Index worksheet:
	15	_ = Total Cov	er	
Sapling/Shrub Stratum (Plot size:)				
1. Viburnum lentago / Nanny-berry	15	Yes	<u>FAC</u>	FACW species 35 x 2 = 70 FAC species 55 x 3 = 165
2. Cornus racemosa / Gray dogwood	15	Yes	FAC	FACU species 10 x 4 = 40
3. Viburnum dentatum / Southern arrow-wood	10	Yes	FAC	UPL species 0 x 5 = 0
4.	-			Column Totals: 100 (A) 275 (B)
5	-			Prevalence Index = B/A = 2.75 (B)
6				Flevalence index - B/A - 2.75
7				Hydrophytic Vegetation Indicators:
	40	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)	00	.,	E4 0)4/	X 2 - Dominance Test is >50%
1. Impatiens capensis / Spotted jewelweed	20	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
2. Circaea ×intermedia / Enchanter's nightshade	15	Yes	FAC	4 - Morphological Adaptations (Provide supporting
3. Epilobium ciliatum / Slender willow herb	10	Yes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
4.				
5.				¹Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.			 	
8.				Definitions of Vegetation Strata
9.				
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12	45	= Total Cov		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)		10(a) 000	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			 	
2. 3.			 	Woody vines - All woody vines greater than 3.28 ft in
4.	-			neight.
··	0	= Total Cov	er	Hydrophytic
			.	Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: ____104-4W

Depth	ription: (Describe to the Matrix			x Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-2	2.5Y 2.5/1	100					mucky loam			
2-20	10YR 3/1	80	7.5YR 5/8	20	D	М				
				_						
				_				-		
	-		-	_						
					· ——					
					· ——					
	· -		-	_	· —— ·			-		
T O. O.		- DM DI	Mo Ma				21	DI	Li-i NA NA	I = 4 = 1 .
Type: C=Co	ncentration, D=Depletion	n, RIVI=Rea	uced Matrix, MS=Mas	ked Sand Gr	rains.		²Loca	ition: PL=P	ore Lining, M=M	iatrix.
lydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	Soils³:
Histosol			Polyvalue Belov	v Surface (S	8) (LRR R .	MLRA 149) (LRR K, L, MI	
	pipedon (A2)		Thin Dark Surfa						edox (A16) (LR	•
						(1430)				
	istic (A3)		Loamy Mucky N		(LKK N, L)				at or Peat (S3) (LKK K, L, K)
	en Sulfide (A4)		Loamy Gleyed					-	7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix						v Surface (S8) (
	d Below Dark Surface (A	A11)	X Redox Dark Su						ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark					•	Masses (F12)	
Sandy N	Aucky Mineral (S1)		Redox Depress	ions (F8)			Piedn	nont Flood	plain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)						Mesic	Spodic (T	A6) (MLRA 14	4A, 145, 149B)
Sandy F	Redox (S5)						Red F	Parent Mat	erial (F21)	
Stripped	l Matrix (S6)						Very	Shallow Da	ark Surface (TF1	2)
	rface (S7) (LRR R, ML	RA 149B)							n Remarks)	•
_	,	,					_	V 1	,	
3Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	ss disturbed	or problem	natic.			
D4-1-41 1										
	_ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil P	resent?	Yes X	No
Remarks:										
Temains.										

Project/Site:	19020 - South Rip	lev	City/County:	Chautauqua	a County	Sampling Date:	08/27/2020
Applicant/Owner:		•	- , , <u> </u>	· · · · · · · · · · · · · · · · · · ·	State: New York		105-1U
Investigator(s):	JM JG JD		Section, Townshi			vn of Ripley	
Landform (hillslope, terrace		one Local	relief (concave, con		Convex		(%): 0-5
Subregion (LRR or MLRA):							` '
Soil Map Unit Name:				Long	NWI classification		i. 14AD 00
Are climatic / hydrologic co				No (If no	o, explain in Remark		
, ,		•			•	•	/ No
	Soil, or Hydrol				ircumstances" prese		(No
	Soil, or Hydrole				olain any answers in	•	
SUMMARY OF FIND	NGS - Attach site	map snowing sar	mpling point lo	cations, transe	ects, important	reatures, etc.	
Hydrophytic Vegetation F	Present? Yes	NoX	ls the	Sampled Area			
Hydric Soil Present?	Yes	NoX	within	a Wetland?	Yes	No X	_
Wetland Hydrology Pres	ent? Yes	No X	If yes,	optional Wetland S			_
Remarks: (Explain altern	ative procedures here or	in a separate report.)					
HYDROLOGY							
Wetland Hydrology Ind							
Primary Indicators (minir	num of one required; che	ck all that apply)				ators (minimum of to	wo required)
Surface Water (A1)			ed Leaves (B9)		Surface Soi	Cracks (B6)	
High Water Table (A	(2)	Aquatic Fau	na (B13)		Drainage Pa	atterns (B10)	
Saturation (A3)		Marl Deposi	ts (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen S	ulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	(B2)	Oxidized Rh	izospheres on Livin	g Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence of	Reduced Iron (C4)		Saturation \	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled	Soils (C6)		Stressed Plants (D1	
Iron Deposits (B5)	,	Thin Muck S	Surface (C7)	, ,	Geomorphic	Position (D2)	•
1 - ' ' '	n Aerial Imagery (B7)		ain in Remarks)		Shallow Aqu		
	Concave Surface (B8)		,			aphic Relief (D4)	
	20110010 0011000 (20)				FAC-Neutra		
				1			
Field Observations:							
Surface Water Present?	Yes N	o X Depth (incl	nes):				
Water Table Present?	Yes N	o X Depth (incl	nes):				
Saturation Present?	Yes N	o X Depth (incl	nes):	Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe			,	_	5 ,		
. , , ,							
Describe Recorded Data	(stream gauge, monitori	ng well, aerial photos,	previous inspection	s), if available:			
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point: 105-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Prunus serotina / Black cherry	20	Yes	FACU	Total Number of Dominant
2. Malus / Apple	15	Yes	FAC	Species Across All Strata: 4 (B)
3. Acer rubrum / Red maple	10	No	FAC	
4. Crataegus / Hawthorn	10	No	FAC	Percent of Dominant Species
5. Fraxinus americana / White ash	10	No	FACU	That Are OBL, FACW, or FAC: 25.0 (A/B)
6		_		
7	_			Prevalence Index worksheet:
	65	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2			_,	FAC species 35 x 3 = 105
3				FACU species 70 x 4 = 280
4				UPL species $0 \times 5 = 0$
5		_		Column Totals: 105 (A) 385 (B) Prevalence Index = B/A = 3.67
6		_		Prevalence index = B/A = 3.67
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%
1. Agrimonia eupatoria / Churchsteeples		Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Rosa multiflora / Multiflora rose, Multiflora rosa	20	Yes	FACU	4 - Morphological Adaptations (Provide supporting
3.				Problematic Hydrophytic Vegetation¹ (Explain)
4	_	_		
5			_ (¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7.				
8		_		Definitions of Vegetation Strata
9			-	
10.	-			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.	40	= Total Cov	er	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)		10(a) 00	Ci	
4				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.	_			
3.		_	- -	Woody vines - All woody vines greater than 3.28 ft in height.
4.		_	- -	noight.
"	0	= Total Cov	er	Hydrophytic
			·.	Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separat	e report.)			

SOIL Sampling Point: 105-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc2 (inches) Color (moist) Type¹ Texture Remarks 10yr 5/4 100 Silt loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South	Ripley	City/County:	Chautauqua	County	Sampling Date:	08/27/2020
Applicant/Owner:					ate: New York	· · · -	105-1W
Investigator(s):	Joe Gallo Jess Detoy		Section, Township,			vn of Ripley	
Landform (hillslope, terrac					Concave		(%): 0-5
Subregion (LRR or MLRA			42.19077674				`
Soil Map Unit Name:					NWI classification		PEM
Are climatic / hydrologic c				No (If no.	_		
, ,	, Soil, or Hyd		ntly disturbed?		cumstances" prese	,	(No
		drology naturally			ain any answers in		<u> </u>
SUMMARY OF FINE					-	•	
					zis, important	icatures, etc.	
Hydrophytic Vegetation		Yes X No		ampled Area			
Hydric Soil Present?		Yes X No		Wetland?	Yes X		-
Wetland Hydrology Pres	sent? Y	Yes X No	If yes, o	ptional Wetland Sit	e ID:	Wetland 105	
Remarks: (Explain alter	native procedures here	e or in a separate report.)				
Tromano. (Explain altor	nauvo procedureo nere	o in a coparate report	,				
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min	imum of one required;	check all that apply)			Secondary Indica	ators (minimum of to	wo required)
X Surface Water (A1)	Water-Stai	ned Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table ((A2)	X Aquatic Fa	una (B13)		Drainage Pa	atterns (B10)	
X Saturation (A3)		Marl Depo	sits (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen	Sulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	Oxidized F	hizospheres on Living	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Presence	of Reduced Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust	(B4)	Recent Iro	n Reduction in Tilled S	oils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Thin Muck	Surface (C7)		X Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7)	Other (Exp	lain in Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	d Concave Surface (B8	8)			Microtopogr	aphic Relief (D4)	
					X FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations:) Van	No V Danth (in	ab a a \.				
Surface Water Present?		No X Depth (in		-			
Water Table Present?	Yes	No X Depth (in		- \		V V	NI-
Saturation Present?	Yes <u>X</u>	No Depth (in	ches): 10	_ wetland Hyd	rology Present?	Yes X	No
(includes capillary fringe	3)						
Describe Recorded Dat	a (stream gauge, moni	itoring well, aerial photos	s, previous inspections	, if available:			
		3 , , , , , ,	,,,	,			
	33.,						
Remarks:							
Remarks:							
Remarks:							
Remarks:							
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Remarks:							
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point:105-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
<u>Tree Stratum</u> (Plot size:30) 1 2		Species?		Total Number of Dominant Species Across All Strata: 4 (B)
3	_	-	-	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	0	_ = Total Cov		OBL species 125 x 1 = 125 FACW species 10 x 2 = 20
Salix / Willow Viburnum dentatum / Southern arrow-wood	10	Yes Yes	FACW FAC	FAC species 10 x 3 = 30 FACU species 0 x 4 = 0
3				UPL species 0 x 5 = 0 Column Totals: 145 (A) 175 (B)
6. 7.				Prevalence Index = B/A =
Herb Stratum (Plot size: 5)	20	_ = Total Cov		1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Leersia oryzoides / Rice cutgrass Typha / Cattail	<u>85</u> 30	Yes Yes	OBL OBL	X 3 - Prevalence Index ≤3.0¹
Scirpus cyperinus / Woolgrass	10	No	OBL	4 - Morphological Adaptations (Provide supporting
4.	_	-	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
5			- — — — — — — — — — — — — — — — — — — —	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9.				Definitions of Vegetation Strata
10. 11.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.	_	= Total Cov		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		_		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3.		- 		Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

 SOIL
 Sampling Point: ____105-1W

Depth	Matrix		eeded to document th Redox	k Features				•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-10	10YR 3/1	90	7.5 YR 3/4	10	С	PL	Mucky			
10-30	10Y 4/1	90	7.5 YR5/6	10	С	М	Clay loam			
Type: C=Con	centration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=P	ore Lining, M=Ma	atrix.
lydric Soil In	dicators:						Indicator	s for Proble	ematic Hydric S	oils³:
Histosol (Polyvalue Belov	v Surface (S8	3) (LRR R ,	MLRA 149	B) 2 cm	Muck (A10) (LRR K, L, ML	RA 149B)
	ipedon (A2)		Thin Dark Surfa						edox (A16) (LRR	-
Black His			Loamy Mucky M			,			at or Peat (S3) (L	
	n Sulfide (A4)		X Loamy Gleyed N		. , ,				7) (LRR K, L)	,
	Layers (A5)		Depleted Matrix					•	Surface (S8) (L	.RR K, L)
	Below Dark Surface (A	A11)	X Redox Dark Sur						ce (S9) (LRR K,	· •
	rk Surface (A12)	•	Depleted Dark S	Surface (F7)					Masses (F12)	
Sandy M	ucky Mineral (S1)		Redox Depressi				Pied	mont Flood	olain Soils (F19)	(MLRA 149B)
Sandy Gl	eyed Matrix (S4)								A6) (MLRA 144	
Sandy Re	edox (S5)						Red	Parent Mate	erial (F21)	
Stripped	Matrix (S6)						Very	Shallow Da	rk Surface (TF12	2)
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Othe	r (Explain ir	Remarks)	
					a diatumbad		. atia			
3Indicators of I	nudranhutia vagatatian	and watten								
	nydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	- distarbed	or problem				
Restrictive La	nydrophytic vegetation ayer (if observed):	and wetlan	d hydrology must be p	resem, unies	3 disturbed	- Problem	idiio.			
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resem, umes	3 disturbed	or problem)vo = 0.042	Vaa. V	No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	3 disturbed		Hydric Soil F	Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unles	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			resent?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 disturbed			Present?	Yes X	No
Restrictive La Type: Depth (inc	ayer (if observed):	and wetlan	d hydrology must be p	resent, unies	3 distulbed			Present?	Yes X	No

Project/Site:	19020	- South Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	08/27/2020
Applicant/Owner:			ConnectGen LLC	- 1		Sta	ate: New York		105-2W
Investigator(s):		JAM JG JD		Section, 7	Township, Ran			wn of Ripley	
Landform (hillslope, terra	ace, etc):	lowland	Local	_	ave, convex, no		concave		(%): 3-5
Subregion (LRR or MLR.		RR R MLRA 13			19118849	Long:	-79.744717		
Soil Map Unit Name:	, <u> </u>		Busti Silt loa				NWI classificati		
Are climatic / hydrologic	conditions on th	ne site typical fo	r this time of year?	Yes X	K No	(If no,	explain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydrology	significan	tly disturbed	i? A	re "Normal Circ	cumstances" pres	ent? Yes	X No
			naturally				ain any answers ir		
SUMMARY OF FIN						ns. transec	ts. important	features, etc.	
Hydrophytic Vegetatio		Yes			Is the Samp		, p	,	
Hydric Soil Present?	ii i ieseiit:	Yes	X No No		within a We		Yes X	No	
Wetland Hydrology Pr	recent?	Yes	X No	_		al Wetland Site		105	=
Remarks: (Explain alte					you, option	ur vvoliding one		100	
100-244.	1 00 datapoint								
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi		eguired; check a	all that apply)				Secondary Indic	ators (minimum of t	wo required)
Surface Water (A		•	X Water-Staine	ed Leaves (I	B9)		Surface So	il Cracks (B6)	
High Water Table	e (A2)		Aquatic Fau	na (B13)			Drainage P	atterns (B10)	
Saturation (A3)			Marl Deposi	ts (B15)			Moss Trim	Lines (B16)	
Water Marks (B1))		Hydrogen Si	ulfide Odor ((C1)		Dry-Season	n Water Table (C2)	
Sediment Deposi	its (B2)		X Oxidized Rh	izospheres	on Living Root	s (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3	3)		Presence of	Reduced Ire	on (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crus	it (B4)		Recent Iron	Reduction in	n Tilled Soils (C6)	Stunted or	Stressed Plants (D1	1)
Iron Deposits (B5	5)		Thin Muck S	Surface (C7)			Geomorphi	c Position (D2)	
Inundation Visible	e on Aerial Imaç	gery (B7)	Other (Expla	ain in Remar	rks)		Shallow Aq	uitard (D3)	
Sparsely Vegetat	ed Concave Su	ırface (B8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Presen	ıt? Ye	s No	X Depth (incl	nes):					
Water Table Present?	Ye	s No	X Depth (incl	nes):					
Saturation Present?	Ye	s No	X Depth (incl	nes):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	ge)								
December December De						9-61-			
Describe Recorded Da	ata (stream gau	ige, monitoring v	well, aerial photos,	previous ins	spections), if a	/allable:			
Remarks:									

Absolute			Dominance Test worksheet:
Absolute			
Absolute			Number of Dominant Species
	Dominant	Indicator	That Are OBL, FACW, or FAC: 4 (A)
%Cover	Species?	Status	(1)
10	Yes	FACW	Total Number of Dominant
	_		Species Across All Strata: 4 (B)
	_		Description of Description of Occasion
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100.0 (A/B)
			Dravalance Index weekshoots
			Prevalence Index worksheet:
10	_ = Total Cov	er	Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
50	Yes	FAC	FACW species 100 x 2 = 200
			FAC species 50 x 3 = 150
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 150 (A) 350 (B)
			Prevalence Index = B/A = 2.33
			Hydrophytic Vegetation Indicators:
50	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
70	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
			1 -
			Problematic Hydrophytic Vegetation¹ (Explain)
			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
90	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
			Herb - All herbaceous (non-woody) plants, regardless of
			size, and woody plants less than 3.28 ft tall.
			Woody vines - All woody vines greater than 3.28 ft in
	-		height.
	-		g.n.
	= Total Cov	or .	Hydrophytic
	_ = 10tai 000	Ci	Vegetation
			Present? Yes X No
	10 50 50 70 20	10 = Total Cov 50 Yes 50 = Total Cov 70 Yes 20 Yes 90 = Total Cov	10 = Total Cover 50 Yes FAC 50 = Total Cover 70 Yes FACW 20 Yes FACW 90 = Total Cover 0 = Total Cover

(inches) Orlea (which) Or Orlea (inches)	
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Rema	ırks
0-3 10YR 3/2 100 loam	
3-18 10YR 4/1 90 7.5YR 5/6 10 C PL,M loam	
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 Soil Indicators for Problematic Hydric Hydri	dric Soils³:
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K,	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16)	•
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (\$	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K	
Stratified Layers (A5) X Depleted Matrix (F3) Polyvalue Below Surface (\$7)	· •
_ , , , , _ , , , , , , , , , , , , , ,	, , , ,
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (L1 Thick Dark Surface (A12) Populated Dark Surface (F7) In Dark Surface (S9) (L1	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F	, , , , , ,
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLR	A 144A, 145, 149B)
Sandy Redox (S5) Red Parent Material (F21)	
Stripped Matrix (S6) Very Shallow Dark Surface	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Туре:	
	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No
Depth (inches): Hydric Soil Present? Yes	X No

Project/Site:	19020 - South Riple	City/Co	City/County: Chautauqua County Sampling Date: 08/27/				
Applicant/Owner:		ConnectGen LLC		State: New York	Sampling Point: 106-1U		
Investigator(s):	JAM JG JD	Section	n, Township, Range:	Tov	vn of Ripley		
Landform (hillslope, terrace,	etc): Hillslop	e Local relief (cor	ncave, convex, none):	Convex	Slope (%): 1-5		
Subregion (LRR or MLRA):	LRR R MLRA 1	39 Lat: 4	2.19222776 Long:	-79.7466397	71 Datum: NAD 83		
Soil Map Unit Name:		Busti Silt Loam	_	NWI classification	on:		
Are climatic / hydrologic cor	ditions on the site typical t	or this time of year? Yes _		no, explain in Remark	s.)		
Are Vegetation, S	oil, or Hydrolog	ysignificantly disturb	ped? Are "Normal	Circumstances" prese	nt? Yes X No		
Are Vegetation, S	oil, or Hydrolog	ynaturally problema		explain any answers in	Remarks.)		
SUMMARY OF FINDI	NGS - Attach site m	ap showing sampling	point locations, trans	sects, important	features, etc.		
Hydrophytic Vegetation P	resent? Yes	No X	Is the Sampled Area				
Hydric Soil Present?	_	No X	within a Wetland?	Yes	No X		
Wetland Hydrology Prese		No X	If yes, optional Wetland		_		
	ative procedures here or in t for PSS wetland 106	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indi	cators:						
"	um of one required; check	all that annly)		Secondary Indica	ators (minimum of two required)		
Surface Water (A1)	um or one required, oncer	Water-Stained Leave	s (B9)		Cracks (B6)		
High Water Table (A	2)	Aquatic Fauna (B13)	0 (50)	Drainage Pa	, ,		
Saturation (A3)	-,	Marl Deposits (B15)		Moss Trim L			
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizosphere	es on Living Roots (C3)	Crayfish Bu	rows (C8)		
Drift Deposits (B3)		Presence of Reduced	l Iron (C4)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (E	34)	Recent Iron Reductio	n in Tilled Soils (C6)	Stunted or S	Stressed Plants (D1)		
Iron Deposits (B5)		Thin Muck Surface (C	27)	Geomorphic	Position (D2)		
Inundation Visible or	Aerial Imagery (B7)	Other (Explain in Rer	narks)	Shallow Aqu	iitard (D3)		
Sparsely Vegetated	Concave Surface (B8)			Microtopogr	aphic Relief (D4)		
				FAC-Neutra	Test (D5)		
Field Observations:							
Surface Water Present?	Yes No	X Depth (inches):					
Water Table Present?	Yes No						
Saturation Present?	Yes No		Wetland I	Hydrology Present?	Yes No X		
(includes capillary fringe)	100 110			ryanology i roconci	100 110 <u>X</u>		
(menades supmany minge)							
Describe Recorded Data	(stream gauge, monitoring	well, aerial photos, previous	inspections), if available:				
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point:106-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Troo Stratum (Plot size: 20)	%Cover			That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	Total Number of Deminant
1.		_		Total Number of Dominant
2.		_		Species Across All Strata: 2 (B)
3	-	_		
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2	<u> </u>	_		FAC species 0 x 3 = 0
2.		-	 	FACU species 80 x 4 = 320
3.				UPL species 0 x 5 = 0
4	-		 	Column Totals: 80 (A) 320 (B)
5				Prevalence Index = B/A = 4.0
6	-	_		Prevalence index = B/A = 4.0
7		_		Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5				
1. Trifolium repens / White clover	40	Yes	FACU	2 - Dominance Test is >50%
2. Trifolium pratense / Red clover	40	Yes	FACU	3 - Prevalence Index ≤3.0¹
3.		-		4 - Morphological Adaptations (Provide supporting
				Problematic Hydrophytic Vegetation¹ (Explain)
5				
			 	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7		_		
8		_		Definitions of Vegetation Strata
9.	-			
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	80	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)		_		Herb - All herbaceous (non-woody) plants, regardless of
1.				size, and woody plants less than 3.28 ft tall.
2				
2.	-	_		Woody vines - All woody vines greater than 3.28 ft in
J	-			height.
4			-	Hadranhadia
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 106-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features

(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Rer 0-18 10YR 3/3 100 silt loam	marks
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining	g, M=Matrix.
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Alexandra August Dark Surface (A12) Stripped Matrix (S6) Dark Surface (S7) Alexandra August Dark Surface (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) August Dark Surface (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S7) (LRR K, L) 5 cm Mucky Peat or Peat (S7) End Surface (S7) August Dark Surface (S8) August Dark Surface (S8) August Dark Surface (S9) August Dark Surface (S8) August Dark Surface (S9) August Dark	K, L, MLRA 149B) 6) (LRR K, L, R) t (S3) (LRR K, L, R) R K, L) e (S8) (LRR K, L) (LRR K, L) 6 (F12) (LRR K, L, R) ls (F19) (MLRA 149B) LRA 144A, 145, 149B) 1) ce (TF12)
Restrictive Layer (if observed):	
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes	NoX
Type:	No <u>X</u>
Type:	No <u>X</u>
Type:	No <u>X</u>
Type:	No X
Type:	NoX
Type:	No X
Type:	NoX
Type:	NoX
Type:	NoX

Project/Site:	19020 - S	South Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	08/27/2020
Applicant/Owner:			nnectGen LLC	,	,	•	tate: New York		106-1W
Investigator(s):		M JG JD		Section.	Township, Rar			vn of Ripley	
Landform (hillslope, terra			ded) Local re		-		Concave		(%): 1-5
Subregion (LRR or MLR	· · · · · · · · · · · · · · · · · · ·	R MLRA 139	Lat:		19234233	Long:	-79.7465674		` '
Soil Map Unit Name:	•						NWI classification		
Are climatic / hydrologic					X No	(If no			
, ,	, Soil , c		•	-			cumstances" prese	,	(No
	_		oignineana				ain any answers in		
SUMMARY OF FIN						·-	•	•	
						·	cts, important	leatures, etc.	
Hydrophytic Vegetatio	n Present?	Yes X			Is the Samp				
Hydric Soil Present?		Yes X	No	_	within a We		Yes	No	=
Wetland Hydrology Pr	esent?	Yes X	No	_	If yes, optior	nal Wetland Sit	e ID:		
Remarks: (Explain alte	ernative procedure	s here or in a se	enarate report)	l.					
Tremarks. (Explain alt	cinative procedure	3 HOIC OF III & 3C	sparate report.)						
HYDROLOGY									
Wetland Hydrology I	ndicators:								
Primary Indicators (mi	nimum of one requ	uired; check all t	hat apply)				Secondary Indica	ators (minimum of t	wo required)
Surface Water (A	.1)		Water-Stained	d Leaves ((B9)		Surface Soil	Cracks (B6)	
High Water Table	e (A2)		Aquatic Fauna	a (B13)			Drainage Pa	atterns (B10)	
Saturation (A3)		_	Marl Deposits				Moss Trim L	ines (B16)	
Water Marks (B1)	_	Hydrogen Sul	fide Odor	(C1)		Dry-Season	Water Table (C2)	
Sediment Deposi	its (B2))	X Oxidized Rhiz	ospheres	on Living Roo	ts (C3)	Crayfish Bu		
Drift Deposits (B3	3)	_	Presence of F	-	-	` '		isible on Aerial Ima	agery (C9)
Algal Mat or Crus	•	_			in Tilled Soils (C6)		Stressed Plants (D1	
Iron Deposits (B5		_	Thin Muck Su		-	,		Position (D2)	,
I — ' '	e on Aerial Imagery	v (B7)	Other (Explain				Shallow Aqu		
	ed Concave Surface	_						aphic Relief (D4)	
oparoory vogotati	ou concavo cuna	30 (20)					X FAC-Neutra		
Field Observations:									
Surface Water Presen	t? Yes _	NoX	Depth (inche	es):					
Water Table Present?	Yes _	NoX	Depth (inche	es):					
Saturation Present?	Yes _	No X	Depth (inche	es):		Wetland Hyd	Irology Present?	Yes X	No
(includes capillary fring	ge)								
				<u> </u>					
Describe Recorded Da	ata (stream gauge,	, monitoring well	l, aerial photos, p	revious in:	spections), if a	vailable:			
Remarks:									
rtomanto.									

VEGETATION - Use scientific names of plants.				Sampling Point:106-1W
Tree Stratum (Plot size:30) 1. Populus / Cottonwood	Absolute <u>%Cover</u> 5	Dominant Species? Yes	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant
2		_		Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6		= Total Cov		Prevalence Index worksheet: Total % Cover of:
Sapling/Shrub Stratum (Plot size:) 1. Salix / Willow 2. Cornus racemosa / Gray dogwood 3 4 5			FACW FAC	FACW species 30 x 2 = 60 FAC species 5 x 3 = 15 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 115 (A) 155 (B) Prevalence Index = B/A = 1.35
6. 7. Herb Stratum (Plot size: 5) 1. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattai 2. 3. 4.	35 80	_	OBL	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
5. 6. 7.				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30) 1.		<u> </u>		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

 SOIL
 Sampling Point: ____106-1W

Depth	ription: (Describe to the Matrix	<u> </u>		c Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10YR 4/1	90	7.5YR 5/4	10	C	PL,M	Loam			
6-18	10YR 5/2	80	7.5YR 5/8	20	С	М	Clay Loam			
		. ,								
		. ,								
		. ,								
		. ,								
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	iced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	ation: PL=F	ore Lining, M=M	latrix.
ludria Cail I	ndicators						Indicator	for Brobl	omatic Hudria	Poilo3:
Hydric Soil I			Daharaksa Dalas	· Curfoss (C	0) / DD D	MI DA 440			ematic Hydric S	
Histosol	•		Polyvalue Belov) (LRR K, L, M	
	pipedon (A2)		Thin Dark Surfa			-			edox (A16) (LR	
	istic (A3)		Loamy Mucky N		(LKK K, L)				at or Peat (S3) (LKK K, L, R)
	en Sulfide (A4)		Loamy Gleyed I					-	(S7) (LRR K, L)	I DD K I V
	d Layers (A5)	۸ 1 1)	X Depleted Matrix						v Surface (S8) (· · · · ·
	d Below Dark Surface (A	A11)	Redox Dark Sui						ce (S9) (LRR K	
	ark Surface (A12)		Depleted Dark S					•	e Masses (F12)	
	Mucky Mineral (S1)		Redox Depress	ions (F8)					plain Soils (F19)	
	Gleyed Matrix (S4)								A6) (MLRA 14	4A, 145, 149B)
	Redox (S5)								erial (F21)	2)
	Matrix (S6)	DA 140D)							ark Surface (TF1	2)
Dark Su	ırface (S7) (LRR R, ML	-KA 149D)					Othe	i (⊏xpiaiii i	n Remarks)	
³Indicators of	hydrophytic vegetation	and wetland	l hydrology must be p	resent. unles	ss disturbed	l or problem	natic.			
						•				
	_ayer (if observed):									
Type:										
Depth (in	iches):		<u></u>				Hydric Soil P	resent?	Yes X	_ No
Remarks:										

Project/Site:	19020 - Sc	outh Ripley	City/Co	ounty:	Chautauqua C	ounty	Sampling Date:	09/29/2020
Applicant/Owner:			nectGen LLC	· —		te: New York		107-1U
Investigator(s):		HK JM		n, Township, Rar			wn of Ripley	
Landform (hillslope, terrac				ncave, convex, n		Convex		(%): 3-7
Subregion (LRR or MLRA				·2.18472259		-79.743269		` '
					Long:	NWI classification		I. NAD 63
Soil Map Unit Name:			oam, 3 to 8 percent slo	•	(15			
Are climatic / hydrologic c			· -			explain in Remark	•	,
			significantly disturb			umstances" prese		(No
			naturally problema		· ·	in any answers in	•	
SUMMARY OF FIND	DINGS - Attacl	h site map sh	nowing sampling	point location	ns, transect	ts, important	features, etc.	
Hydrophytic Vegetation	Present?	Yes	No X	Is the Samp	led Area			
Hydric Soil Present?		Yes		within a We		Yes	No X	
Wetland Hydrology Pres	sent?	Yes			nal Wetland Site			=
vvctiana riyarology i re-	ocht:			ii yes, optioi	iai vvetiana oite			
Remarks: (Explain alter	native procedures	here or in a sep	arate report.)					
, ,	·	•	. ,					
HYDROLOGY								
Wetland Hydrology In-	dicators:							
Primary Indicators (min	imum of one requi	ired; check all tha	at apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A1)		Water-Stained Leave	es (B9)			l Cracks (B6)	
High Water Table (•	· 	Aquatic Fauna (B13)	` '			atterns (B10)	
Saturation (A3)	(- 1-)	_	Marl Deposits (B15)			Moss Trim L		
Water Marks (B1)		·	Hydrogen Sulfide Od	or (C1)			Water Table (C2)	
Sediment Deposits	n (D2)				to (C2)			
· ·	. ,	-	Oxidized Rhizosphere	-	is (C3)	Crayfish Bu		(00)
Drift Deposits (B3)		_	Presence of Reduced	` ,	00)		/isible on Aerial Ima	
Algal Mat or Crust			Recent Iron Reductio	,	C6)		Stressed Plants (D1)
				771		Coomorphia		
Iron Deposits (B5)			Thin Muck Surface (C	•			Position (D2)	
Inundation Visible	on Aerial Imagery	· · · —	Other (Explain in Ren	•		Shallow Aqu		
I — ' ' '	on Aerial Imagery	· · · —	·	•		Shallow Aqu		
Inundation Visible	on Aerial Imagery	· · · —	·	•		Shallow Aqu	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate	on Aerial Imagery	· · · —	·	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations:	on Aerial Imagery d Concave Surfac	ee (B8)	Other (Explain in Ren	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	on Aerial Imagery d Concave Surfac	No X	Other (Explain in Ren	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations:	on Aerial Imagery d Concave Surfac	ee (B8)	Other (Explain in Ren	•		Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	on Aerial Imagery d Concave Surfac	No X	Other (Explain in Ren	•	Wetland Hydr	Shallow Aqu Microtopogr	uitard (D3) aphic Relief (D4)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present?	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _	No X No X	Other (Explain in Rer Depth (inches): Depth (inches):	•	Wetland Hydr	Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present?	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No X
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	No <u>X</u>
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX
Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date	on Aerial Imagery d Concave Surfac ? Yes _ Yes _ Yes _ Yes _ e)	No X No X No X	Other (Explain in Rer Depth (inches): Depth (inches): Depth (inches):	marks)		Shallow Aqu Microtopogr FAC-Neutra	uitard (D3) aphic Relief (D4) I Test (D5)	NoX

VEGETATION - Use scientific names of plants.				Sampling Point:107-1U
-				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,
1. Acer rubrum / Red maple	40	Yes	FAC	Total Number of Dominant
2. Acer saccharum / Sugar maple	40	Yes	FACU	Species Across All Strata: 6 (B)
3. Prunus serotina / Black cherry	10	No	FACU	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50.0 (A/B)
6.				
7				Prevalence Index worksheet:
	90	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
Fagus grandifolia / American beech	10	Yes	FACU	FACW species 5 x 2 = 10
2. Acer rubrum / Red maple	10	Yes	FAC	FAC species x 3 = 150
Quercus rubra / Northern red oak	5	Yes	FACU	FACU species 65 x 4 = 260
4			- 	UPL species $0 \times 5 = 0$
5				Column Totals: 120 (A) 420 (B)
6			- 	Prevalence Index = B/A = 3.5
7			- 	Hydrophytic Vegetation Indicators:
	25	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5				2 - Dominance Test is >50%
1. Fraxinus pennsylvanica / Green ash		Yes	FACW	3 - Prevalence Index ≤3.0¹
2	_			4 - Morphological Adaptations (Provide supporting
3				Problematic Hydrophytic Vegetation¹ (Explain)
4				
5			<u> </u>	¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7	-	-		
8				Definitions of Vegetation Strata
9.				
10.		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.		-		breast height (DBH), regardless of height.
12	5	= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		_ = 10(a) 000	GI	greater than or equal to 3.28 ft (1 m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2. 3.				Woody vines - All woody vines greater than 3.28 ft in
4.				neight.
· · ·	0	= Total Cov	er	Hydrophytic
		_	-	Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 107-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features % Loc2 (inches) Color (moist) Color (moist) Type¹ Texture Remarks 10YR5/4 100 Silt loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - Si	outh Ripley		City/Cour	nty:	Chautauqua	County	Sampling Date:	09/29/2020
Applicant/Owner:		Col	nnectGen LLC			Sta	ate: New York	Sampling Point:	107-1W
Investigator(s):		IK JM		Section,	Township, Ran	ige:	To	wn of Ripley	
Landform (hillslope, terra	ce, etc):	Hillslope	Local r		ave, convex, n		Concave	Slope	e (%): 3-7
Subregion (LRR or MLRA					18505723	Long:	-79.743262		
Soil Map Unit Name:			loam, 3 to 8 pe	rcent slope	es		NWI classificati	ion:	None
Are climatic / hydrologic o			is time of year?	Yes >	X No	(If no,	explain in Remar	ks.)	
Are Vegetation	, Soil , or	Hydrology	significant	ly disturbed	d? A	re "Normal Cir	cumstances" pres	ent? Yes	X No
	, Soil, or					f needed, expla	ain any answers ir	n Remarks.)	
SUMMARY OF FINI						ns, transec	ts, important	features, etc.	
Hydrophytic Vegetation		Yes X	No		Is the Samp		•	·	
Hydric Soil Present?		Yes X	No		within a We		Yes X	No	
Wetland Hydrology Pre	esent?	Yes X	No			al Wetland Site		107 PFO	_
Remarks: (Explain alte Wetland เ	rnative procedures upland matrix	here or in a se	parate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators:								
Primary Indicators (mir		red; check all th	nat apply)				Secondary Indic	ators (minimum of t	two required)
Surface Water (A	1)	×	Water-Staine	d Leaves (B9)			il Cracks (B6)	
High Water Table	(A2)		Aquatic Faur	na (B13)			Drainage P	atterns (B10)	
Saturation (A3)		<u> </u>	Marl Deposit	s (B15)			Moss Trim	Lines (B16)	
Water Marks (B1)			_ Hydrogen Su	Ilfide Odor	(C1)		Dry-Seasor	n Water Table (C2)	
Sediment Deposit	s (B2)	_	Oxidized Rhi	zospheres	on Living Roof	ts (C3)	Crayfish Bu	ırrows (C8)	
Drift Deposits (B3)		_ Presence of	Reduced In	on (C4)		Saturation	Visible on Aerial Ima	agery (C9)
Algal Mat or Crus	t (B4)	_	_ Recent Iron F	Reduction in	n Tilled Soils (C6)	Stunted or	Stressed Plants (D'	1)
Iron Deposits (B5)	•		_ Thin Muck Si					c Position (D2)	
	on Aerial Imagery	· · · —	Other (Explain	in in Remar	rks)		Shallow Aq		
Sparsely Vegetate	ed Concave Surfac	e (B8)						raphic Relief (D4)	
							X FAC-Neutra	al Test (D5)	
Field Observations:									
Surface Water Present	? Yes	No X	Depth (inch	es):					
Water Table Present?	Yes	NoX	Depth (inch	es):					
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring	le)								
Describe Recorded Da	ata (etream gauge	monitoring well	aerial photos r	orevious ins	enections) if a	vailable:			
Describe Recorded Da	ita (Siream gauge,	monitoring wen	, aeriai priotos, p	JIEVIOUS IIIS	speciions), ii a	valiable.			
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point: 107-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 6 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Acer saccharinum / Silver maple	10	Yes	FACW	Total Number of Dominant
2. Betula alleghaniensis / Yellow birch	10	Yes	FAC	Species Across All Strata: 7 (B)
3. Acer rubrum / Red maple	5	Yes	FAC	
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 85.7 (A/B)
6.				
7.	-			Prevalence Index worksheet:
· · ·	25	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 30 x 1 = 30
1. Fraxinus pennsylvanica / Green ash	10	Yes	FACW	FACW species 40 x 2 = 80
Fagus grandifolia / American beech	10	Yes	FACU	FAC species 20 x 3 = 60
3.		103	1700	FACU species 10 x 4 = 40
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 210 (B)
				Prevalence Index = B/A = 2.1
6.				Trovalono madx Ent
7				Hydrophytic Vegetation Indicators:
	20	_ = Total Cov	er	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. Myosotis scorpioides / Forget me not, Water forget-me-not	30	Yes	OBL	X 3 - Prevalence Index ≤3.0¹
2. Impatiens capensis / Spotted jewelweed	20	Yes	FACW	4 - Morphological Adaptations (Provide supporting
Solidago rugosa / Wrinkle-leaf goldenrod	5	No	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
4				1 Toblematic Hydrophytic vegetation (Explain)
5				1Indicators of hydric coil and watland hydrology must
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata
9.				Definitions of Vegetation official
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH and
	55	= Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3.		_		Woody vines - All woody vines greater than 3.28 ft in height.
4.	-			neight.
T	0	= Total Cov	or	Hydrophytic
		_ = 10(a) C0v	CI	Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	renort)			•
remarks. (Explain alternative procedures here of in a separate	, report.)			

Depth	cription: (Describe to the Matrix			r Features				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-6	10 YR 2/1	95	7.5YR 4/4	5	С	М	Loam			
6-18	10YR5/2	80	7.5YR5/6	20	С	М	Loam			
Type: C=Co	ncentration, D=Depletio	n, RM=Red	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Locat	ion: PL=P	ore Lining, M=Mat	rix.
Judria Sail I	Indicators						Indicators	for Brobl	omatic Hydric So	ile3:
Hydric Soil I			Dobavoluo Bolov	v Curtoso (C) / DD D	MI DA 440E			ematic Hydric So	
Histosol	` '		Polyvalue Belov) (LRR K, L, MLR	-
	pipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (LRR	
	istic (A3)		Loamy Mucky N		LKK K, L)				at or Peat (S3) (LF	KK K, L, R)
	en Sulfide (A4)		Loamy Gleyed N					-	7) (LRR K, L)	יי א חר
	d Layers (A5)		X Depleted Matrix						Surface (S8) (LF	
	d Below Dark Surface (A	A11)	X Redox Dark Sur						ce (S9) (LRR K, I	
	ark Surface (A12)		Depleted Dark S					-	Masses (F12) (I	
′	Mucky Mineral (S1)		Redox Depressi	ions (F8)					plain Soils (F19) (I	
	Gleyed Matrix (S4)								A6) (MLRA 144A	i, 145, 149B)
	Redox (S5)								erial (F21)	
	d Matrix (S6)	DA 140D)							ark Surface (TF12)	
Dark Su	ırface (S7) (LRR R, ML	-KA 149D)					Other	(⊏xpiaiii ii	n Remarks)	
3Indicators of	f hydrophytic vegetation	and wetlan	d hydrology must be p	resent, unles	s disturbed	or problema	atic.			
	Layer (if observed):									
Type:	1)								V V	
Depth (in	nches):						Hydric Soil Pr	esent?	Yes X	No
Remarks:										

Project/Site:	19020 - South Riple	y City	/County:	Chautauqua (County	Sampling Date:	09/29/2020
Applicant/Owner:			· —	Sta	ate: New York	Sampling Point:	108-1W
Investigator(s):	JAM HK		tion, Township, Ra	ange:	Tov	wn of Ripley	
Landform (hillslope, terra	ce, etc): Lowla		concave, convex,		Concave		e (%): 3-10
• • •	LRR R MLRA	•	42.18341997	Long:	-79.7336324		
Soil Map Unit Name:		Busti Silt Loam			NWI classification		FO1E
	onditions on the site typical	for this time of year? Yes	X No	(If no,	– explain in Remark	s.)	
, ,	, Soil , or Hydrolog	•			cumstances" prese	•	X No
		y naturally proble			ain any answers in		
	DINGS - Attach site n				•	•	
		· · · · · ·	<u> </u>		to, important	ioatai oo, otoi	
Hydrophytic Vegetation	_	X No		ipled Area	Vaa V	No	
Hydric Soil Present?	Yes _	X No	within a W		Yes X		_
Wetland Hydrology Pre	sent? Yes _	No	if yes, option	onal Wetland Site	: טו פ	108	
	rnative procedures here or i and 108. Connects to mapp						
HYDROLOGY							
Wetland Hydrology In	dicators:						
	imum of one required; chec	k all that annly)			Secondary Indica	ators (minimum of	two required)
Surface Water (A1	•	X Water-Stained Lea	ives (B9)			Cracks (B6)	two roquirou)
X High Water Table	,	Aquatic Fauna (B1	` '			atterns (B10)	
X Saturation (A3)	,	Marl Deposits (B15	•		Moss Trim L		
Water Marks (B1)		Hydrogen Sulfide (•			Water Table (C2)	
Sediment Deposit	s (B2)	Oxidized Rhizosph		ots (C3)	Crayfish Bu		
Drift Deposits (B3)		Presence of Reduc	ced Iron (C4)	. ,		/isible on Aerial Im	agery (C9)
Algal Mat or Crust	(B4)	Recent Iron Reduc	tion in Tilled Soils	(C6)	Stunted or S	Stressed Plants (D	1)
Iron Deposits (B5)		Thin Muck Surface	e (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7)	Other (Explain in F	Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegetate	d Concave Surface (B8)				Microtopogr	aphic Relief (D4)	
					FAC-Neutra	l Test (D5)	
Field Observations							
Field Observations:	O Voo No	V Donth (inches):					
Surface Water Present Water Table Present?							
Saturation Present?	Yes X No		<u>9</u> 7	Watland Hyd	rology Drocont?	Voc. V	No
(includes capillary fring		Deptit (inches).		welland nyu	rology Present?	Yes X	No
(includes capillary ining							
Describe Recorded Da	ta (stream gauge, monitorin	g well, aerial photos, previo	us inspections), if	available:			
Remarks:							
1							

VEGETATION - Use scientific names of plants. Sampling Point: 108-1W **Dominance Test worksheet: Number of Dominant Species** Absolute Dominant Indicator That Are OBL, FACW, or FAC: 2 (A) Tree Stratum (Plot size: 30) %Cover Species? Status 1. Tsuga / Hemlock **Total Number of Dominant** 2. Betula alleghaniensis / Yellow birch 20 Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 60 = Total Cover OBL species 0 x 1 = ____ Sapling/Shrub Stratum (Plot size: 15) 10 ___ x 2 = __ FACW species 20 x 3 = FAC species 0 FACU species x 4 = UPL species 0 x 5 = 30 (A) Column Totals: Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 0 = Total Cover ___ 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 1. Impatiens capensis / Spotted jewelweed X 3 - Prevalence Index ≤3.01 2. Onoclea / Sensitive fern 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 4. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. **Definitions of Vegetation Strata** Tree - Woody plants 3 in. (7.6 cm) or more in diameter at 11. breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in 0 = Total Cover Hydrophytic Vegetation Present? Yes ____ No ____ Remarks: (Explain alternative procedures here or in a separate report.)

SOIL Sampling Point: 108-1W

	ription: (Describe to the Matrix	ne depth nee		he indicator x Features	or confirm	the abser	nce of indicators	s.)		
Depth (inches)	Color (moist)	%	Color (moist)	x realures %	Typo1	Loc²	Texture		Remarks	
			Color (moist)		Type ¹	LOC-			Remarks	
0-6	10YR 3/1	100	7 EVD E/6				mucky loam			
6-18	10YR 4/1	90	7.5YR 5/6	10	C	M	loam			
	·				· ——					
				_	· —— ·					
	·				· —— ·					
				_	· —— ·					
					. .			-		
				_						
¹Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mas	ked Sand G	rains.		²Loca	tion: PL=F	ore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric S	oils³:
Histosol	(A1)		Polyvalue Belov	w Surface (S	8) (LRR R ,	MLRA 149	(B) 2 cm	Muck (A10) (LRR K, L, ML	RA 149B)
	pipedon (A2)		Thin Dark Surfa	•	, .		· —	•	edox (A16) (LRF	
	istic (A3)		Loamy Mucky N			,			at or Peat (S3) (L	· · · ·
	en Sulfide (A4)		Loamy Gleyed		. , -,				67) (LRR K, L)	. , ,
	d Layers (A5)		X Depleted Matrix						v Surface (S8) (L	RR K. L)
	d Below Dark Surface (/	A11)	Redox Dark Su						ce (S9) (LRR K,	
	ark Surface (A12)	,	Depleted Dark S						e Masses (F12)	-
	Mucky Mineral (S1)		Redox Depress						plain Soils (F19)	
	Gleyed Matrix (S4)		Redox Depress	10113 (1 0)					A6) (MLRA 144	
	Redox (S5)								erial (F21)	A, 143, 143D)
										2)
	Matrix (S6)	DA 440D)							ark Surface (TF12	2)
Dark Su	ırface (S7) (LRR R, ML	.KA 149B)					Other	(Explain I	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be n	resent unle	ee dieturhad	or problem	natic			
		and Wolland	- Injuriology made 20 p		oo alotalboa	or problem				
	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil P	resent?	Yes X	No
D l										
Remarks:										

Project/Site:	19020 - South Ripley		City/County:	Chautauqua (County	Sampling Date:	09/29/2020
Applicant/Owner:	. ,	ConnectGen LLC	· · —	Sta	ate: New York	· · · -	108-2W
Investigator(s):	JAM HK		Section, Township, R	lange:	Tov	vn of Ripley	
Landform (hillslope, terrace, e	etc): Lowland		lief (concave, convex		Concave		(%): 0-5
Subregion (LRR or MLRA):	· -				-79.732273		· ·
Soil Map Unit Name:		anandaigua mucky s			NWI classification		M5E
Are climatic / hydrologic cond		r this time of year?	Yes X No) (If no,	- explain in Remark	s.)	
	il, or Hydrology	•			cumstances" prese	•	(No
Are Vegetation , So					ain any answers in		
SUMMARY OF FINDIN					•	•	
				· · · · · · · · · · · · · · · · · · ·	to, important	ioutui oo, otoi	
Hydrophytic Vegetation Pre		X No		npled Area	V V	No	
Hydric Soil Present?		X No			Yes X	_	_
Wetland Hydrology Present	t? Yes	X No	_ II yes, opt	ional Wetland Site	e ID:	108	
Remarks: (Explain alternati Wetland 108 F	ve procedures here or in a PEM data point. Part of NY						
HYDROLOGY							
Wetland Hydrology Indica	etors:						
Primary Indicators (minimu		all that apply)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1)	ir or one required, check a	Water-Stained	Leaves (R9)			Cracks (B6)	wo required)
X High Water Table (A2)		Aquatic Fauna	` '			atterns (B10)	
X Saturation (A3)		Marl Deposits			Moss Trim L		
Water Marks (B1)		Hydrogen Sulf	•			Water Table (C2)	
Sediment Deposits (B)	2)	· ·	ospheres on Living R	oots (C3)	Crayfish Bu		
Drift Deposits (B3)	-,		educed Iron (C4)	()		isible on Aerial Ima	agery (C9)
			eduction in Tilled Soil			Stressed Plants (D1	o , , ,
Algal Mat or Crust (B4)	Recent Iron Re		s (C6)	Sturited or 3	niesseu Fiants (Di	
Algal Mat or Crust (B4 Iron Deposits (B5))			s (C6)		•	,
Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A	•	Thin Muck Sur Other (Explain	rface (C7)	s (C6)	X Geomorphic Shallow Aqu	Position (D2)	,
Iron Deposits (B5)	Aerial Imagery (B7)	Thin Muck Sur	rface (C7)	s (C6)	X Geomorphic Shallow Aqu	Position (D2)	,
Iron Deposits (B5) Inundation Visible on A	Aerial Imagery (B7)	Thin Muck Sur	rface (C7)	s (C6)	X Geomorphic Shallow Aqu	Position (D2) uitard (D3) aphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	Aerial Imagery (B7)	Thin Muck Sur	rface (C7)	s (C6)	X Geomorphic Shallow Aqu Microtopogr	Position (D2) uitard (D3) aphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations:	Aerial Imagery (B7) oncave Surface (B8)	Thin Muck Sur Other (Explain	rface (C7) in Remarks)	s (C6)	X Geomorphic Shallow Aqu Microtopogr	Position (D2) uitard (D3) aphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present?	Aerial Imagery (B7) oncave Surface (B8) Yes No	Thin Muck Sur Other (Explain	rface (C7) in Remarks) s):	s (C6)	X Geomorphic Shallow Aqu Microtopogr	Position (D2) uitard (D3) aphic Relief (D4)	,
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	Aerial Imagery (B7) concave Surface (B8) Yes No Yes No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s		X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Aerial Imagery (B7) oncave Surface (B8) Yes No	Thin Muck Sur Other (Explain	s):s		X Geomorphic Shallow Aqu Microtopogr	Position (D2) uitard (D3) aphic Relief (D4)	No
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	Aerial Imagery (B7) concave Surface (B8) Yes No Yes No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s		X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	
Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Aerial Imagery (B7) concave Surface (B8) Yes No YesX No YesX No	Thin Muck Sur Other (Explain X Depth (inche Depth (inche	s):s s):s s):s	Wetland Hyd	X Geomorphic Shallow Aqu Microtopogr X FAC-Neutra	Position (D2) uitard (D3) aphic Relief (D4) I Test (D5)	

VEGETATION - Use scientific names of plants.				Sampling Point: 108-2W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size:30)	%Cover	Species?	Status	That / 10 OBE, 1 / 10 V, 01 1 / 10:
				Total Number of Dominant
1.				
2.				Species Across All Strata:3 (B)
3.				Devent of Deminent Charles
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0 11 401 1 01 4 (014)	0	_ = Total Cov	er	OBL species 70 x 1 = 70
Sapling/Shrub Stratum (Plot size:15)				FACW species 30 x 2 = 60
1		<u> </u>		FAC species $0 \times 3 = 0$
2				
3				
4				
5				Column Totals: 100 (A) 130 (B)
6				Prevalence Index = B/A = 1.3
7				Hydrophytic Vegetation Indicators:
	0	_ = Total Cov	er	X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Typha latifolia / Broadleaf cattail, Broad-leaved cattail	50	Yes	OBL	
2. Phalaris arundinacea / Reed canarygrass, Reed canary gras	30	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
3. Leersia oryzoides / Rice cutgrass	20	Yes	OBL	4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.				
6.				¹Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
8.				Definitions of Versetsian Streets
9				Definitions of Vegetation Strata
9.				The Medical at the Circ (7.0 and an arranging disposation of
10		-	-	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11 12		-	-	
12	100	= Total Cov	or	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)	100	_ = 10tai 00v	Ci	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2.				
		- -	 	Woody vines - All woody vines greater than 3.28 ft in
3.				height.
4				Hardward atta
	0	_ = Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report \			
Terrains. (Explain alternative procedures here of in a separate	report.)			

SOIL Sampling Point: 108-2W

	cription: (Describe to the	ne depth nee			or confirm	the abse	nce of indicators.)	
Depth (inches)	Matrix Color (moist)	%		Features	Tunc1	Loc2	Toytura	Domorko
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/1	100	7.5\/D.5/0				mucky loam	
9-24	10YR 5/1	80	7.5YR 5/6	20	<u> </u>	M	loam	
				· ———				
	<u> </u>			<u> </u>				
	-							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gr	ains.		² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	Surface (S	8) (LRR R.	MLRA 149	3B) 2 cm Muc	ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)	•	Thin Dark Surface	•	,		· —	airie Redox (A16) (LRR K, L, R)
	istic (A3)	•	Loamy Mucky M			,		cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)	•	Loamy Gleyed N		,, _ /			face (S7) (LRR K, L)
	d Layers (A5)		X Depleted Matrix					e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (/	Δ11)	Redox Dark Sur					Surface (S9) (LRR K, L)
	ark Surface (A12)	311)	Depleted Dark S					ganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi					t Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)	,	Redux Deplessi	ons (i o)				odic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							ent Material (F21)
	d Matrix (S6)							llow Dark Surface (TF12)
	urface (S7) (LRR R, ML	DA 140D)						plain in Remarks)
Daik 30	inace (37) (LICIX IX, IVIL	.KA 149D)					Office (EX	cpiairi iri Nemarks)
3Indicators of	f hydrophytic vegetation	and wetland	hydrology must be pr	esent, unles	ss disturbed	or probler	natic.	
Restrictive L	Layer (if observed):							
Type:	, (,.							
Depth (in	nches).						Hydric Soil Prese	ent? Yes X No
Dopui (iii							11,4110 00111 1000	100 <u>X</u> 110
Remarks:								

Project/Site:	19020 -	South Ripley		City/Coun	ntv:	Chautauqua	County	Sampling Date:	09/29/2020	
Applicant/Owner:		<u>'</u>	ctGen LLC			State: New York			108-1U	
Investigator(s):		JAM HK	Section, Towns					wn of Ripley		
Landform (hillslope, terr				•	ive, convex, r					
Subregion (LRR or MLR			Lat:		8344197	Long:	-79.733925	· ·	` '	
Soil Map Unit Name:	· —		Busti Silt Loam				NWI classification	on:		
Are climatic / hydrologic	conditions on the	site typical for this ti	me of year?	Yes X	(No	(If no,	_ explain in Remark	(s.)		
Are Vegetation	, Soil ,	or Hydrology	significantly	disturbed	i?	Are "Normal Cire	cumstances" prese	ent? Yes	X No	
Are Vegetation						If needed, expla	ain any answers in	Remarks.)		
SUMMARY OF FIN	IDINGS - Atta	ch site map sho	wing sam	pling po	oint location	ons, transec	ts, important	features, etc.		
Hydrophytic Vegetation		Yes	No X		Is the Samp		•	•		
Hydric Soil Present?		Yes X	No	-	within a We		Yes	No X		
Wetland Hydrology P	resent?	Yes	No X	-	If yes, option	nal Wetland Site			_	
				_						
Remarks: (Explain alt Upland p	ternative procedure point for Wetland 1		ate report.)							
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (m	inimum of one req	uired; check all that	apply)				Secondary Indica	ators (minimum of	two required)	
Surface Water (A	A1)	\	Water-Stained	Leaves (E	B9)		Surface Soi	l Cracks (B6)		
High Water Table	e (A2)	/	Aquatic Fauna	(B13)			Drainage Pa	atterns (B10)		
Saturation (A3)			Marl Deposits				Moss Trim I	ines (B16)		
Water Marks (B1	•		Hydrogen Sulf	,	,			Water Table (C2)		
Sediment Depos	` '		Oxidized Rhize		-	ts (C3)	Crayfish Bu			
Drift Deposits (B	•		Presence of R		. ,			/isible on Aerial Im		
Algal Mat or Cru			Recent Iron Re			(C6)		Stressed Plants (D	1)	
Iron Deposits (B	•		Thin Muck Sur	, ,				Position (D2)		
	le on Aerial Imager	· · · · —	Other (Explain	in Remar	ks)		Shallow Aq	, ,		
Sparsely Vegeta	ited Concave Surfa	ace (B8)						raphic Relief (D4)		
							FAC-Neutra	ii lest (D5)		
Field Observations:										
Surface Water Preser	nt? Yes	No X	Depth (inche	s):						
Water Table Present?	Yes	NoX	Depth (inche	s):						
Saturation Present?	Yes	No X	Depth (inche	s):		Wetland Hyd	rology Present?	Yes	No X	
(includes capillary frin	ige)									
Describe Described D	Octo (otroom souss		rial photos pr	ovious ins	nootions) if c	wailahla:				
Describe Recorded D	ala (Sileaili gauge	, monitoring well, ae	riai priotos, pi	evious iris	spections), ii a	ivaliable.				
Remarks:										

VEGETATION - Use scientific names of plants. Sampling Point: 108-1U **Dominance Test worksheet: Number of Dominant Species** Absolute Dominant Indicator That Are OBL, FACW, or FAC: 2 (A) Tree Stratum (Plot size: %Cover Species? Status FACU 1. Fagus grandifolia / American beech **Total Number of Dominant** 2. Acer saccharum / Sugar maple 20 FACU Yes Species Across All Strata: (B) 3. Betula alleghaniensis / Yellow birch 10 No FAC 4. Prunus serotina / Black cherry 10 **FACU** No Percent of Dominant Species 5. Tsuga canadensis / Eastern hemlock FACU That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: _____15_) OBL species 0 x 1 = ____ 0 ___ x 2 = __ FACW species 35 x 3 = FAC species FACU species 80 x 4 = UPL species 0 x 5 = _ (A) __ Column Totals: 115 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 0 = Total Cover ___ 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 1. Dryopteris intermedia / Evergreen wood fern FAC 3 - Prevalence Index ≤3.01 2. Acer rubrum / Red maple FAC 4 - Morphological Adaptations (Provide supporting ____ Problematic Hydrophytic Vegetation¹ (Explain) 4. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. **Definitions of Vegetation Strata** Tree - Woody plants 3 in. (7.6 cm) or more in diameter at 11. breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and 25 = Total Cover greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size: 30) Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in 0 = Total Cover Hydrophytic Vegetation Present? Yes ____ No ____ Remarks: (Explain alternative procedures here or in a separate report.)

SOIL Sampling Point: 108-1U

Depth	ription: (Describe to the Matrix			k Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-8	10YR 3/2	100					silt loam			
8-16	10YR 5/2	100					silt loam			
	-					-				
	· -									
	·									
	-		•				-			
	·									
						 -	-			
							·			
Tyne: C=Coi	ncentration, D=Depletio	n RM=Redi		ked Sand Gr	ains		²l ocati	on: PI =Poi	e Lining, M=Ma	ıtrix
		ii, itivi–itouc		Neu Gariu Gr	airio.		Location	011. 1 L=1 01	C Lilling, IVI–IVIE	iuix.
lydric Soil I	ndicators:						Indicators f	or Probler	matic Hydric So	oils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S	3) (LRR R,I	VILRA 149E	3) 2 cm M	luck (A10)	(LRR K, L, MLI	RA 149B)
Histic Ep	pipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast I	Prairie Red	ox (A16) (LRR	K, L, R)
Black Hi	istic (A3)		Loamy Mucky N	lineral (F1)	(LRR K, L)		5 cm M	lucky Peat	or Peat (S3) (L	RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)			Dark S	urface (S7)	(LRR K, L)	
Stratified	d Layers (A5)		X Depleted Matrix	(F3)			Polyval	lue Below S	Surface (S8) (L	RR K, L)
Depleted	d Below Dark Surface (A	A11)	Redox Dark Su	face (F6)			Thin Da	ark Surface	(S9) (LRR K,	L)
Thick Da	ark Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Ma	anganese M	Masses (F12)	(LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			Piedmo	ont Floodpl	ain Soils (F19)	(MLRA 149B)
Sandy G	Gleyed Matrix (S4)								6) (MLRA 144	
	Redox (S5)							arent Mater		,
	l Matrix (S6)								s Surface (TF12	2)
	rface (S7) (LRR R, ML	RA 149B)						Explain in I		,
	, , , ,	,					`	•	,	
³Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problema	atic.			
Restrictive I	_ayer (if observed):									
Type:	ayer (ii observed).									
Depth (in	ichee).						Hydric Soil Pre	eont?	Yes X	No
Deptii (iii							Tiyunc 30ii Fie		163 <u>X</u>	
Remarks:										

Project/Site:	19020	- South Ripley		City/Coun	nty:	Chautauqua	County	Sampling Date:	09/29/2020	
Applicant/Owner:			ConnectGen LLC	, , ,	•	'	ate: New York	· · ·	109-1W	
Investigator(s):		HK JM		Section, Township, R						
Landform (hillslope, terra	ace, etc):		l ocal r		ave, convex, n	-	Concave		e (%): 2-5%	
Subregion (LRR or MLR.					1837036	Long:	-79.738406		· ·	
Soil Map Unit Name:	,		Ashville silt loa			ə	NWI classificati		None	
Are climatic / hydrologic	conditions on th	ne site typical for			K No	(If no	explain in Remarl		10.10	
Are Vegetation			•	-		` '	cumstances" pres	,	X No	
			naturally p				ain any answers ir		<u> </u>	
SUMMARY OF FIN	_					· ·	-	•		
							o, important	Touturoo, oto.		
Hydrophytic Vegetatio	n Present?		X No		Is the Samp		V V	NI-		
Hydric Soil Present?			X No	_	within a We		Yes X		_	
Wetland Hydrology Pr	esent?	Yes	X No		ii yes, opilon	al Wetland Site	e ID:	109 PFO		
Remarks: (Explain alte	ernative procedu	ures here or in a	separate report.)							
HYDROLOGY										
Wetland Hydrology I	ndicators:									
Primary Indicators (mi	nimum of one re	equired; check a	all that apply)				Secondary Indic	ators (minimum of t	two required)	
Surface Water (A			X Water-Staine	d Leaves (E	B9)	_		il Cracks (B6)		
High Water Table	(A2)		Aquatic Faur	na (B13)	•			atterns (B10)		
Saturation (A3)	,		Marl Deposits					Lines (B16)		
Water Marks (B1))		Hydrogen Su	ılfide Odor ((C1)		Dry-Season Water Table (C2)			
Sediment Deposi	its (B2)		X Oxidized Rhi			ts (C3)	Crayfish Bu	irrows (C8)		
Drift Deposits (B3	3)		Presence of		_		Saturation	Visible on Aerial Ima	agery (C9)	
Algal Mat or Crus	-		Recent Iron F	Reduction ir	n Tilled Soils (C6)		Stressed Plants (D		
Iron Deposits (B5			Thin Muck S		-	,		c Position (D2)	,	
Inundation Visible	•	ery (B7)	Other (Explai				Shallow Aq			
Sparsely Vegetat	-		` '		,			raphic Relief (D4)		
		, ,					X FAC-Neutra			
Field Observations										
Field Observations: Surface Water Presen	12 Va	a No	V Donth (inch	.00):						
		s No _	X Depth (inch X Depth (inch	-						
Water Table Present? Saturation Present?			X Depth (inch X Depth (inch	· —		Wetland Hud	rolomy Brocont?	Voc. V	No	
	Yes	S NO _	Deptil (inch	es)		welland nyu	rology Present?	Yes X	No	
(includes capillary fring	ge) 									
Describe Recorded Da	ata (stream gau	ge, monitoring v	vell, aerial photos, p	orevious ins	spections), if a	vailable:				
Remarks:										
remarks.										

VEGETATION - Use scientific names of plants.				Sampling Point: 109-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 5 (A)
Tree Stratum (Plot size:)	%Cover	Species?	Status	
1. Acer rubrum / Red maple	40	Yes	FAC	Total Number of Dominant
2. Fraxinus pennsylvanica / Green ash	15	Yes	FACW	Species Across All Strata: 5 (B)
3		_		
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0 1: (0) 1 0: (1) (1)	55	_ = Total Cov	er	OBL species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: 15)	45	Vaa	EA C\A/	FACW species 70 x 2 = 140
Fraxinus pennsylvanica / Green ash	15	Yes	FACW	FAC species 50 x 3 = 150
2.				FACU species 0 x 4 = 0
3. 4.				UPL species 0 x 5 = 0
			- · -	Column Totals: 120 (A) 290 (B)
				Prevalence Index = B/A = 2.42
6. 7.				
··· 	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_	-	1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	40	Yes	FACW	X 2 - Dominance Test is >50%
2. Aster / Aster	10	Yes	FAC	X 3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations (Provide supporting
4.				Problematic Hydrophytic Vegetation¹ (Explain)
5.				1 Indicators of hydric coil and watered hydrology mayor
6.				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				be present, unless disturbed of problematic.
8		_		Definitions of Vegetation Strata
9				
10	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11	_			breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
W 1.15 01 1 (DL1)	50	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1.	_		<u> </u>	size, and woody plants less than 3.28 ft tall.
2.			<u> </u>	Woody vines - All woody vines greater than 3.28 ft in
4.				height.
T		= Total Cov	er	Hydrophytic
			OI .	Vegetation
				Present? YesX No
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 109-1W

(nohes) Color (moist) % Color (moist) % Type* Lac* Texture Remarks 0-9 3/1 95 7.5YR 8/6 5 10 C M Loam 9-18 10YR 5/1 90 7.5YR 8/6 110 C M Loam Type: C**Concentration, D**Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Type: C**Concentration, D**Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Hydric Soil Indicators: Histonic Dippletion (A) Polyvalue Below Surface (Si) (LRR MLRA 1489) Coat Print Dark Surface (MR MLRA 1489) Coat Print Dark Surface (MR MLRA 1489) Coat Print Reduced Print Dark Surface (MR MLRA 1489) Coat Print Reduced Print Dark Surface (MR MLRA 1489) Coat Print Reduced Print Reduced Print Dark Surface (MR MLRA 1489) Coat Print Reduced Print	Depth	iption: (Describe to the Matrix			Features				,
Polyse: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyvalue Below Surface (S8) (LRR R,MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 148, 148, 148, 148, 148, 148, 148, 148	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Indicators:* Histosol (A1)	0-9	3/1	95	7.5YR 5/6	5		PL,M	Loam	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)	9-18	10YR 5/1	90	7.5YR 5/6	10	С	M	Loam	
Histosol (A1)									
Histosol (A1)									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 cm Muck (A10) (LRR K, L, R)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) X Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 144 A, 145, 145 A,									
Histosol (A1)	Type: C=Con	centration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Mask	ced Sand Gra	ains.		² Locat	tion: PL=Pore Lining, M=Matrix.
Histosol (A1)	vdric Soil Ir	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S2) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Find Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Find Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Find Dark Surface (S9) (LRR K, L) Sandy Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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				Polyvalue Below	/ Surface (S	3) (LRR R ,	MLRA 1491		•
Black Histic (A3)		• •	_		•	, ,		· —	
Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) LCRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, L) Piedmont Floodplain Soils (F19) (MLRA 144 Mesic Spodic (TA6) (MLRA 144A, 145, 144 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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 Layers (A5)			-			(, _ /			
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 143 Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 143 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 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			-						
Thick Dark Surface (A12)			=						
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 144 Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 145 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 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		•	-						
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 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			-						
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 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			-	Redox Depressi	0113 (1 0)				
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Undicators 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									
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? YesX No									
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		, ,	DA 149B)						
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No	Dark Gui	lace (OI) (ERRIN, INIE	.IVA 143D)					0.1101	(Explain in Kemarks)
Type:	Indicators of	hydrophytic vegetation	and wetland	hydrology must be pi	resent, unles	s disturbed	l or problem	atic.	
Type:	Postrictivo I	avor (if observed):							
Depth (inches): Hydric Soil Present? Yes X No									
								Hydric Soil Pr	resent? Yes Y No
Remarks:	Deptil (ilit							Tiyunc 3011 F1	lesent: les 🗡 NO
	Remarks:								

Project/Site:	19020 - 9	South Ripley	City/Co	unty: Chautauqu	ia County	Sampling Date:	09/29/2020
Applicant/Owner:			nectGen LLC		State: New York	· · · —	109-1U
Investigator(s):		JAM HK	Section	, Township, Range:		n of Ripley	
Landform (hillslope, terr				cave, convex, none):			%): 3-7
Subregion (LRR or MLR							·
Soil Map Unit Name:			ashville Silt loam		NWI classification		
Are climatic / hydrologic					no, explain in Remarks		
, ,		,,	significantly disturbe		Circumstances" preser		No
			naturally problemat		kplain any answers in f		110
					•	•	
		-		ooint locations, trans	ects, important i	eatures, etc.	
Hydrophytic Vegetation	on Present?	Yes		Is the Sampled Area			
Hydric Soil Present?		Yes		within a Wetland?		NoX	
Wetland Hydrology P	resent?	Yes	NoX	If yes, optional Wetland	Site ID:		
Remarks: (Explain alt upland p	ernative procedure point for wetland 10		arate report.)				
HYDROLOGY							
	Indicators						
Wetland Hydrology Primary Indicators (m		uirad: abaak all the	ot apply)		Cocondon, Indico	toro (minimum of tw	ro roquirod)
	·	illed, Check all tha	11 7/	(DO)		Crooks (R6)	o required)
Surface Water (A	•	_	Water-Stained Leaves	(69)	Surface Soil		
High Water Table	E (AZ)	_	Aquatic Fauna (B13)		Drainage Pa		
Saturation (A3)	1.	_	Marl Deposits (B15)	~ (C1)	Moss Trim Li	, ,	
Water Marks (B1	•	_	Hydrogen Sulfide Odo			Water Table (C2)	
Sediment Depos		_	-	s on Living Roots (C3)	Crayfish Bur		(00)
Drift Deposits (B	•		Presence of Reduced	` ,		isible on Aerial Imag	
Algal Mat or Cru		_	Recent Iron Reduction	` ,		tressed Plants (D1)	
Iron Deposits (B	•		Thin Muck Surface (C	·		Position (D2)	
	e on Aerial Imager	· · · · —	Other (Explain in Rem	arks)	Shallow Aqu		
Sparsely Vegeta	ted Concave Surfa	ce (B8)				aphic Relief (D4)	
					FAC-Neutral	lest (D5)	
Field Observations:							
Surface Water Preser	nt? Yes	No X	Depth (inches):				
Water Table Present?	Yes	No X					
Saturation Present?	Yes	No X	Depth (inches):	Wetland H	ydrology Present?	Yes	No X
(includes capillary frin	_				,		
(, т							
Describe Recorded D	ata (stream gauge	, monitoring well, a	aerial photos, previous i	nspections), if available:			
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point:109-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Prunus serotina / Black cherry	30	Yes	FACU	Total Number of Dominant
2. Acer saccharum / Sugar maple	20	Yes	FACU	Species Across All Strata: 5 (B)
3. Acer rubrum / Red maple	20	Yes	FAC	
4.	-			Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 20.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	70	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 20 x 3 = 60
3.	- -			FACU species 70 x 4 = 280
4.				UPL species 0 x 5 = 0
-				Column Totals: 90 (A) 340 (B)
				Prevalence Index = B/A = 3.78
		-		
7	0	= Total Cov		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_ = 10(a) 000	Ci	1 - Rapid Test for Hydrophytic Vegetation
1. Mitchella repens / Partridge-berry	10	Yes	FACU	2 - Dominance Test is >50%
	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
2. Hamamelis virginiana / American witch-hazel		res	FACU	4 - Morphological Adaptations (Provide supporting
3	_	_		Problematic Hydrophytic Vegetation¹ (Explain)
4	_			
5	_			¹Indicators of hydric soil and wetland hydrology must
6		_		be present, unless disturbed or problematic.
7		_		
8		_		Definitions of Vegetation Strata
9				
10	_			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12		_		Sapling/shrub - Woody plants less than 3 in. DBH and
	20	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 109-1U Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) % Loc2 (inches) Color (moist) Type¹ Texture Remarks 10YR 4/4 100 Silt loam 0-18 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: ___ Histosol (A1) Polyvalue Below Surface (S8) (LRR R,MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed 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 Surface (F6) Thin Dark Surface (S9) (LRR K, L) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Yes ___ Depth (inches): **Hydric Soil Present?** No X Remarks:

Project/Site:	19020 - South R	ipley	City/County:	Chautauqua	County	Sampling Date:	09/29/2020
Applicant/Owner:		<u> </u>			State: New York	· · · · —	110-1W
Investigator(s):	HK JM		Section, Townshi			n of Ripley	-
Landform (hillslope, terrad		slope Local	relief (concave, con		Convex	. ,	(%): 1-3
Subregion (LRR or MLRA			42.183642				`
Soil Map Unit Name:					NWI classification	_	EM
Are climatic / hydrologic c				No (If no	o, explain in Remarks		
, ,	, Soil, or Hydro	•	ntly disturbed?		ircumstances" prese	,	. No
	, Soil , or Hydro				plain any answers in		
SUMMARY OF FINE					•	•	
					cts, important	eatures, etc.	
Hydrophytic Vegetation				Sampled Area			
Hydric Soil Present?	Ye	· —— · ——		a Wetland?	Yes X		-
Wetland Hydrology Pre	sent? Ye	s <u>X</u> No	If yes,	optional Wetland Si	ite ID:	110	
Remarks: (Explain alter	rnative procedures here	or in a separate report					
		o a copa. a.c . opo)					
LIVEROL COV							
HYDROLOGY							
Wetland Hydrology In	dicators:						
Primary Indicators (min	imum of one required; ch	neck all that apply)			Secondary Indica	tors (minimum of tv	vo required)
Surface Water (A1)		ned Leaves (B9)		Surface Soil	Cracks (B6)	
High Water Table	(A2)	Aquatic Fa	una (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)		Marl Depos	its (B15)		Moss Trim L	ines (B16)	
Water Marks (B1)		Hydrogen S	Sulfide Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposits	s (B2)	Oxidized R	hizospheres on Livin	g Roots (C3)	Crayfish Bur	` '	
Drift Deposits (B3))	Presence o	f Reduced Iron (C4)		Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust	(B4)	Recent Iron	Reduction in Tilled	Soils (C6)	Stunted or S	tressed Plants (D1))
Iron Deposits (B5)		Thin Muck	Surface (C7)		Geomorphic	Position (D2)	
Inundation Visible	on Aerial Imagery (B7)	Other (Expl	ain in Remarks)		Shallow Aqu	itard (D3)	
Sparsely Vegetate	d Concave Surface (B8)				Microtopogra	aphic Relief (D4)	
					X FAC-Neutral	Test (D5)	
Field Observations							
Field Observations:	O Van	No V Donth (inc	h a a \.				
Surface Water Present		No X Depth (inc		-			
Water Table Present?		· `		_	-ll D40	V V	NI-
Saturation Present?		No X Depth (inc	enes):	vvetiand Hy	drology Present?	Yes X	No
(includes capillary fring	e)						
Describe Recorded Date	ta (stream gauge, monito	oring well, aerial photos	previous inspection	s), if available:			
	J. 1 J. 1	3	, , , , , , , , , , , , , , , , , , , ,	-,,			
Remarks:							

VEGETATION - Use scientific names of plants.				Sampling Point: 110-1W
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 3 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1. Fraxinus pennsylvanica / Green ash	5	Yes	FACW	Total Number of Dominant
2.				Species Across All Strata: 3 (B)
3.				
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	5	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0
1.				FACW species <u>85</u> x 2 = <u>170</u>
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: <u>85</u> (A) <u>170</u> (B)
6.				Prevalence Index = B/A = 2.0
7.				
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		=		X 1 - Rapid Test for Hydrophytic Vegetation
1. Impatiens capensis / Spotted jewelweed	40	Yes	FACW	X 2 - Dominance Test is >50%
2. Onoclea / Sensitive fern	40	Yes	FACW	X 3 - Prevalence Index ≤3.0¹
				4 - Morphological Adaptations (Provide supporting
4.			-	Problematic Hydrophytic Vegetation¹ (Explain)
5.		-		
6.				¹Indicators of hydric soil and wetland hydrology must
7.			-	be present, unless disturbed or problematic.
				Definitions of Versetsian Streets
0				Definitions of Vegetation Strata
				True Meady plants 2 in (7.6 are) or many in diameter at
10. 11.		<u> </u>		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.		<u> </u>		
· - · -	80	= Total Cov	er	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)			0.	
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3		-	 	Woody vines - All woody vines greater than 3.28 ft in height.
4.		-		noight.
"	0	= Total Cov	er	Hydrophytic
		_ 10101 001	Ci .	Vegetation
				Present? YesX No
				100 <u>X</u> 110
Remarks: (Explain alternative procedures here or in a separate	e report.)			

 SOIL
 Sampling Point: ____110-1W

Depth	ription: (Describe to the Matrix			x Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-5	10YR 3/2	100					Loam			
5-18	10Y4/1	75	10YR5/8	25	C	M	Loam	-		
				_						
				_						
								-		
	· 									
Type: C=Coi	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ition: PL=P	ore Lining, M=	Matrix.
Hydric Soil I	ndicators:						Indicators	for Probl	ematic Hydric	Soils3:
Histosol			Polyvalue Belov	w Surface (S	8) (LRR R, I	MLRA 149E) (LRR K, L, I	
	oipedon (A2)		Thin Dark Surfa						edox (A16) (LI	•
	stic (A3)		Loamy Mucky N			,				(LRR K, L, R)
	en Sulfide (A4)		X Loamy Gleyed		,, _ /				7) (LRR K, L)	
	d Layers (A5)		Depleted Matrix					-	V Surface (S8)	
	d Below Dark Surface (A	Δ11)	Redox Dark Su						ce (S9) (LRR	
		111)	Depleted Dark Su							(LRR K, L, R)
	ark Surface (A12) /lucky Mineral (S1)							ū	` '	
	• • • •		Redox Depress	ions (Fo)						9) (MLRA 149B)
	Gleyed Matrix (S4)									44A, 145, 149B)
	Redox (S5)								erial (F21)	140)
	Matrix (S6)	DA 440D)							ark Surface (TF	12)
Dark Su	rface (S7) (LRR R, ML	.KA 149B)					Other	(Explain i	n Remarks)	
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problema	atic.			
						·				
	ayer (if observed):									
Type:			<u></u>						., .,	
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 -	- South Ripley	C	City/County:	Chautauqua	County	Sampling Date:	09/29/2020
Applicant/Owner:		· · ·	nectGen LLC			State: New York		110-1U
Investigator(s):		JAM HK		Section, Townsh			wn of Ripley	
Landform (hillslope, ter		undulating		ef (concave, cor		convex	Slope	(%): 3-7
Subregion (LRR or MLF	· · ·		Lat:	42.183467	· -	-79.740450		` '
Soil Map Unit Name:	,		ashville Silt loam			NWI classification		
Are climatic / hydrologic	c conditions on the	site typical for this	time of year? Y	es X	No (If no	— o, explain in Remark	s.)	
Are Vegetation			•			ircumstances" prese	•	(No
		, or Hydrology		olematic?	(If needed, exp	olain any answers in	Remarks.)	
SUMMARY OF FI						•	•	
Hydrophytic Vegetati		Yes	No X		Sampled Area			
Hydric Soil Present?		Yes			n a Wetland?	Yes	No X	
Wetland Hydrology F		Yes			, optional Wetland Si			_
Trouding Hydrology 1			_ 110	,00	, optional Wolland Ol			
Remarks: (Explain al upland	ternative procedur point for wetland 1		arate report.)					
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m		quired: check all tha	at apply)			Secondary Indica	ators (minimum of t	wo required)
Surface Water (quii ou, orroon un un	Water-Stained L	eaves (B9)			Cracks (B6)	
High Water Tabl	•		Aquatic Fauna (,			atterns (B10)	
Saturation (A3)	- ()		Marl Deposits (I	•		Moss Trim L		
Water Marks (B	1)		Hydrogen Sulfid	le Odor (C1)			Water Table (C2)	
Sediment Depos	sits (B2)		Oxidized Rhizos	spheres on Livir	ng Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (E	33)		Presence of Re	duced Iron (C4)		Saturation \	/isible on Aerial Ima	agery (C9)
Algal Mat or Cru	ust (B4)		Recent Iron Rec	duction in Tilled	Soils (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B	i5)		Thin Muck Surfa	ace (C7)		Geomorphic	Position (D2)	
Inundation Visib	ole on Aerial Image	ery (B7)	Other (Explain i	n Remarks)		Shallow Aqu	uitard (D3)	
Sparsely Vegeta	ated Concave Surf	face (B8)				Microtopogr	aphic Relief (D4)	
						FAC-Neutra	l Test (D5)	
Field Observations								
Field Observations: Surface Water Prese		No X	Donth (inches)	۸.				
Water Table Present		NoX NoX		-	_			
Saturation Present?	Yes		Depth (inches)		Wetland Hy	drology Present?	Yes	No X
(includes capillary fri		NO	_ Deptil (illiches))	vvetiand ny	diology Fresent?		NO
(includes capillary in	ige)							
Describe Recorded D	Data (stream gaug	e, monitoring well,	aerial photos, pre	vious inspectior	ns), if available:			
Remarks:								

VEGETATION - Use scientific names of plants.				Sampling Point: 110-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	(,,
1. Prunus serotina / Black cherry	30	Yes	FACU	Total Number of Dominant
2. Acer saccharum / Sugar maple	30	Yes	FACU	Species Across All Strata: 4 (B)
3. Acer rubrum / Red maple	10	No	FAC	
4.	_			Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	70	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		=		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 20 x 3 = 60
3.				FACU species 70 x 4 = 280
4.				UPL species 0 x 5 = 0
5.				Column Totals: 90 (A) 340 (B)
6.				Prevalence Index = B/A = 3.78
7.				
	0	= Total Cov	/er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Dryopteris intermedia / Evergreen wood fern	10	Yes	FAC	2 - Dominance Test is >50%
Hamamelis virginiana / American witch-hazel	10	Yes	FACU	3 - Prevalence Index ≤3.0¹
3.				4 - Morphological Adaptations (Provide supporting
1				Problematic Hydrophytic Vegetation¹ (Explain)
5.				
				¹ Indicators of hydric soil and wetland hydrology must
6. 7.				be present, unless disturbed or problematic.
•				Definitions of Versatation Streets
^				Definitions of Vegetation Strata
				Tues Meady plants 2 in (7.6 am) or many in diameter at
10 11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11 12				
12	20	= Total Cov	er	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)		_ ''otal ''ot'	0.	
4				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
2.				Woody vines - All woody vines greater than 3.28 ft in height.
4.				neight.
· .		= Total Cov		Hydrophytic
		_ = 10tal 001	Ci	Vegetation
				Present? Yes NoX
				100 NOX
Remarks: (Explain alternative procedures here or in a separate	e report.)			
	. ,			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

Depth	Matrix	<u>_</u>	Redox	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-18	10YR 4/4	100					Silt loam		
	-					_			_
	•	-							
							,,		_
		-							
	•	-							
	•	-							<u> </u>
¹ Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Masl	ked Sand Gra	ains.		² Locatio	n: PL=Po	re Lining, M=Matrix.
Hydric Soil Ir	ndicators:						Indicators for	or Proble	matic Hydric Soils³:
Histosol	(A1)		Polyvalue Belov	v Surface (S8	3) (LRR R,	MLRA 1491	B) 2 cm M	uck (A10)	(LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (LR	R R, MLRA	149B)	Coast F	rairie Rec	dox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			,			or Peat (S3) (LRR K, L, R)
					LIXIX IX, L)			•	
	n Sulfide (A4)		Loamy Gleyed I) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	: (F3)					Surface (S8) (LRR K, L)
Depleted	l Below Dark Surface (A11)	Redox Dark Sur	rface (F6)			Thin Da	rk Surface	e (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark S	Surface (F7)			Iron-Ma	inganese l	Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Redox Depress					-	lain Soils (F19) (MLRA 149B)
	• • • •		ROGON BOPROGO	10110 (1 0)					
	leyed Matrix (S4)								.6) (MLRA 144A, 145, 149B)
	edox (S5)							rent Mate	
Stripped	Matrix (S6)						Very Sh	allow Dar	k Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149B)					Other (F	Explain in	Remarks)
_									
3Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	s disturbed	or problem	atic.		
	, i ji ji i ji i j								
Restrictive L	ayer (if observed):								
Type:	, , , , , , , , , , , , , , , , , , , ,								
	ahaa\:						Uvdria Cail Dra	00nt2	Voc. No. V
Deptii (iiit	ches):						Hydric Soil Pre	Sent	Yes NoX
Remarks:									
remarks.									

Project/Site:	19020 - Sc	outh Ripley	City/Cou	unty:	Chautauqua C	ounty	Sampling Date:	09/29/2020
Applicant/Owner:			tGen LLC	· —		te: New York		111-1U
Investigator(s):		K JM		, Township, Ran			vn of Ripley	-
Landform (hillslope, terrac			Local relief (cond			Convex		(%): 8-15
Subregion (LRR or MLRA)				.17661548	Long:	-79.6638533		`
Soil Map Unit Name:			, 8 to 15 percent slop			NWI classification		one
Are climatic / hydrologic co					(If no. 4	explain in Remark		One
			_significantly disturbe			umstances" prese	•	. No
			_naturally problemati			in any answers in		110
					-	-	•	
SUMMARY OF FIND		-			ns, transect	s, important	reatures, etc.	
Hydrophytic Vegetation	Present?		No <u>X</u>	Is the Samp	led Area			
Hydric Soil Present?		Yes 1	No <u>X</u>	within a We	tland?	Yes	NoX	_
Wetland Hydrology Pres	sent?	Yes 1	No <u>X</u>	If yes, option	al Wetland Site	ID:		
Remarks: (Explain alter	native procedures	here or in a senara	te report)	I				
i Nemarks. (Explain alter	native procedures	nere or in a separar	te report.)					
HYDROLOGY								
Wetland Hydrology Inc	dicators:							
Primary Indicators (mini		red: check all that ar	oply)			Secondary Indica	ators (minimum of to	vo required)
Surface Water (A1			ater-Stained Leaves	(B9)			Cracks (B6)	10 : oqu.: ou)
High Water Table (•		quatic Fauna (B13)	(20)			atterns (B10)	
Saturation (A3)	, (Z)		arl Deposits (B15)			Moss Trim L		
Water Marks (B1)			ydrogen Sulfide Odo	r (C1)			Water Table (C2)	
Sediment Deposits	. (B2)		xidized Rhizosphere		e (C3)	Crayfish Bu		
	` '		•	-	.5 (03)			gon, (CO)
Drift Deposits (B3)			resence of Reduced	` ,	26)		isible on Aerial Ima	
Algal Mat or Crust			ecent Iron Reduction	•	J0)		Stressed Plants (D1)
Iron Deposits (B5)			nin Muck Surface (C7	-			Position (D2)	
Inundation Visible		· ·	ther (Explain in Rem	arks)		Shallow Aqu		
Sparsely Vegetated	d Concave Surface	e (B8)					aphic Relief (D4)	
						FAC-Neutra	l lest (D5)	
Field Observations:			Donth (inches):					
Field Observations:) Yes	No X 1						
Surface Water Present?			Depth (inches):					
Surface Water Present? Water Table Present?	Yes	No X	Depth (inches):		Wotland Hydr	ology Procent?	Vac	No. Y
Surface Water Present? Water Table Present? Saturation Present?	Yes Yes	No X	· · · · —		Wetland Hydr	ology Present?	Yes	No X
Surface Water Present? Water Table Present?	Yes Yes	No X	Depth (inches):		Wetland Hydr	ology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present?	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes e)	No X I	Depth (inches):	nspections), if a		ology Present?	Yes	No X

VEGETATION - Use scientific names of plants.				Sampling Point:111-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Troe Stratum (Diet size: 20	%Cover	Species?		That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	Total Number of Demain and
1				Total Number of Dominant
2.				Species Across All Strata: 3 (B)
3				
4	-			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6				
7				Prevalence Index worksheet:
	0	_ = Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3.				FACU species 80 x 4 = 320
4.				UPL species 0 x 5 = 0
5.			-, <u></u> -	Column Totals: 80 (A) 320 (B)
6.				Prevalence Index = B/A = 4.0
7.				
· · · ·	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)			0.	1 - Rapid Test for Hydrophytic Vegetation
1. Trifolium repens / White clover	30	Yes	FACU	2 - Dominance Test is >50%
Trifolium retense / Red clover	30	Yes	FACU	3 - Prevalence Index ≤3.01
-	20			4 - Morphological Adaptations (Provide supporting
3. Plantago lanceolata / Ribwort, English plantain		Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4				
5				¹Indicators of hydric soil and wetland hydrology must
6	<u> </u>			be present, unless disturbed or problematic.
7		_		
8				Definitions of Vegetation Strata
9				
10				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11				breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
	80	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3.			- · · · · · · · · · · · · · · · · · · ·	height.
4.	0.0		-, <u></u> -	
	0	= Total Cov	er	Hydrophytic
		_		Vegetation
				Present? Yes NoX
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 111-1U

Depth	iption: (Describe to the Matrix			Features				,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-9	10YR3/3	95	7.5YR5/6	5	С	М	Silt loam	
								
ype: C=Con	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mask	ked Sand Gra	ains.		²Locati	on: PL=Pore Lining, M=Matrix.
ydric Soil Ir	ndicators:						Indicators	for Problematic Hydric Soils³:
Histosol			Polyvalue Below	Surface (S8	3) (LRR R. I	MLRA 149E		Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	Thin Dark Surface	-			· —	Prairie Redox (A16) (LRR K, L, R)
Black His		-	Loamy Mucky M			,		Mucky Peat or Peat (S3) (LRR K, L, R)
_	n Sulfide (A4)	-	Loamy Gleyed N					surface (S7) (LRR K, L)
	Layers (A5)	-	Depleted Matrix					lue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	Redox Dark Sur					ark Surface (S9) (LRR K, L)
_	rk Surface (A12)	,	Depleted Dark S	` ,				anganese Masses (F12) (LRR K, L, R)
_	ucky Mineral (S1)	=	Redox Depressi					ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)	=	Redox Depressi	0113 (1 0)				Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TF12)
	face (S7) (LRR R, ML	DA 140B)						(Explain in Remarks)
Dark our	lace (O7) (EIXIX IX, IME	.IVA 143D)						(Explain in Remarks)
ndicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problema	atic.	
						·		
	ayer (if observed):							
Type:	Rock							
Depth (inc	ches):	9	<u></u>				Hydric Soil Pre	esent? Yes No _X
emarks:								
	Rock refusal at 9 inches	3						

Project/Site:	19020 - So	outh Ripley	C	City/County:	Chautauqua	County	Sampling Date:	09/29/2020
Applicant/Owner:			nnectGen LLC	, , 	· ·	ate: New York		111-1W
Investigator(s):		K JM		Section, Township, I			wn of Ripley	
Landform (hillslope, terra				ef (concave, conve		Concave		(%): 5-10
Subregion (LRR or MLR/	· · · —		Lat:	•	Long:	-79.6639459		`
Soil Map Unit Name:			oam, 8 to 15 perce			NWI classification		one
Are climatic / hydrologic					lo (If no,	explain in Remark		
• •	, Soil , or	• •	•		`	cumstances" prese	,	. No
			naturally prob			ain any answers in		
SUMMARY OF FIN						•	•	
		•		Ţ.	· ·	is, important	icatures, etc.	
Hydrophytic Vegetation	n Present?	Yes X	No		mpled Area			
Hydric Soil Present?		Yes X	No		Wetland?	Yes X		_
Wetland Hydrology Pre	esent?	Yes X	No	If yes, op	tional Wetland Site	e ID:	111 PEM	
Remarks: (Explain alte	ernative procedures	here or in a ser	parate report)	1				
Tromainer (Explain and	omano procedures		parato roporti,					
HYDROLOGY								
Wetland Hydrology In	ndicators:							
Primary Indicators (min	nimum of one requir	ed; check all th	at apply)			Secondary Indica	ators (minimum of to	wo required)
Surface Water (A	.1)		_ Water-Stained L	_eaves (B9)		Surface Soi	l Cracks (B6)	
X High Water Table	(A2)		_ Aquatic Fauna ((B13)		Drainage Pa	atterns (B10)	
X Saturation (A3)		_	_ Marl Deposits (F	B15)		Moss Trim L	ines (B16)	
Water Marks (B1))		_ Hydrogen Sulfid	de Odor (C1)		Dry-Season	Water Table (C2)	
Sediment Deposit	ts (B2)		Oxidized Rhizos	spheres on Living F	Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)		Presence of Re	duced Iron (C4)		Saturation \	isible on Aerial Ima	igery (C9)
Algal Mat or Crus	st (B4)		Recent Iron Rec	duction in Tilled So	ls (C6)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5	5)	_	Thin Muck Surfa	ace (C7)		Geomorphic	Position (D2)	
Inundation Visible	e on Aerial Imagery ((B7)	Other (Explain i	n Remarks)		Shallow Aqu	uitard (D3)	
		(D0)	_			Microtopogr	aphic Relief (D4)	
Sparsely Vegetate	ed Concave Surface	∋ (B8)						
Sparsely Vegetate	ed Concave Surface	∋ (B8)				X FAC-Neutra	l Test (D5)	
	ed Concave Surface	e (B8)				X FAC-Neutra	l Test (D5)	
Field Observations:			Double (in the cal	Λ.		X FAC-Neutra	I Test (D5)	
Field Observations: Surface Water Present	t? Yes	NoX	` ` `			X FAC-Neutra	I Test (D5)	
Field Observations: Surface Water Present Water Table Present?	t? Yes Yes	No X X No	Depth (inches): 9				
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes Yes Yes	NoX): 9	Wetland Hyd	X FAC-Neutra	Yes X	No
Field Observations: Surface Water Present Water Table Present?	t? Yes Yes Yes	No X X No	Depth (inches): 9	Wetland Hyd			No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t? Yes Yes Yes ge)	No X X No X No	Depth (inches) Depth (inches)): 9): 5				No

VEGETATION - Use scientific names of plants.				Sampling Point:111-1W
Tree Stratum (Plot size:30) 1234		 		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species
5. 6.				That Are OBL, FACW, or FAC: 100.0 (A/B)
7. Sapling/Shrub Stratum (Plot size:	0 5	= Total Cov		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 50 x 1 = 50 FACW species 65 x 2 = 130 FAC species 0 x 3 = 0
3				FACU species 0 $x 4 = 0$ 0 0 0 0 0 0 0 0 0
7. Herb Stratum (Plot size: 5) 1. Typha angustifolia / Narrow leaf cattail, Narrow-leaved cattai		= Total Cov	er OBL	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
Lysimachia nummularia / Moneywort, Creeping-jenny	50	Yes	FACW	X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting
 3. <u>Symphyotrichum novae-angliae</u> / New england american-ast 4. 5. 6. 7. 		-, - <u> </u>	FACW	Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8		- ·	<u> </u>	Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12		= Total Cov		Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
4	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 111-1W

Depth	iption: (Describe to the Matrix			Features				-
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR2/1	90	10Y5/1	10	D	M	Loam	
	-							
						 -		
						· •		
ype: C=Con	centration, D=Depletion	n, RM=Reduc	ced Matrix, MS=Mask	ked Sand Gra	ains.		² Locatio	on: PL=Pore Lining, M=Matrix.
ydric Soil Ir	ndicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	Surface (S	3) (LRR R. I	MLRA 149E		luck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	-	Thin Dark Surfa	•	,		· —	Prairie Redox (A16) (LRR K, L, R)
Black His		-	Loamy Mucky M			,		lucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)	-	Loamy Gleyed N	Matrix (F2)				urface (S7) (LRR K, L)
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyval	lue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	\11) _	Redox Dark Sur					ark Surface (S9) (LRR K, L)
_	rk Surface (A12)	-	X Depleted Dark S					anganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	-	Redox Depressi	ons (F8)				ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5) Matrix (S6)							arent Material (F21) hallow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149R)						Explain in Remarks)
	(2) (2) (2) (1) (1) (1) (1) (1) (1)							explain in remaine)
Indicators of	hydrophytic vegetation	and wetland	hydrology must be pr	resent, unles	s disturbed	or problema	atic.	
Restrictive L	ayer (if observed):							
Type:	ayo. (ii obool vou).							
Depth (inc							Hydric Soil Pre	esent? Yes X No
	, <u> </u>							
emarks:								

Project/Site:	19020 - South	Ripley	City/County:	Chautauqua	County	Sampling Date:	09/29/2020
Applicant/Owner:				· · · · · · · · · · · · · · · · · · ·	ate: New York		112-1U
Investigator(s):	HK JN		Section, Township,			vn of Ripley	-
Landform (hillslope, terrac			l relief (concave, conve		Convex		(%): 8-15
Subregion (LRR or MLRA)			42.17750122				
Soil Map Unit Name:					NWI classification		one
Are climatic / hydrologic co			•	No (If no,	_		One
		Irologysignificat			cumstances" prese	•	. No
		Irologynaturally			ain any answers in		
					-	•	
SUMMARY OF FIND			impling point loc	ations, transet	is, important	reatures, etc.	
Hydrophytic Vegetation	Present? Y			ampled Area			
Hydric Soil Present?	Y	'es NoX	within a	Wetland?	Yes	NoX	_
Wetland Hydrology Pres	sent? Y	'es NoX	If yes, o	ptional Wetland Site	e ID:		
Demarks: (Evolain alter	native procedures here	e or in a separate report.)					
i Nemarks. (Explain alten	native procedures nere	or in a separate report.	1				
HYDROLOGY							
Wetland Hydrology Inc	dicators:						
Primary Indicators (mini		check all that apply)			Secondary Indica	ators (minimum of tw	vo required)
Surface Water (A1)		,	ned Leaves (B9)			Cracks (B6)	10 : oqu.: ou)
High Water Table (A	•	Aquatic Fa	` '			atterns (B10)	
Saturation (A3)	, u_)	Marl Depos			Moss Trim L		
Water Marks (B1)			Sulfide Odor (C1)			Water Table (C2)	
Sediment Deposits	(R2)		hizospheres on Living	Poots (C3)	Crayfish Bu		
·	` '			Roots (C3)			gon, (CO)
Drift Deposits (B3)			of Reduced Iron (C4)	eile (CC)		isible on Aerial Ima	
Algal Mat or Crust	(B4)		Reduction in Tilled So	olis (C6)		Stressed Plants (D1)
Iron Deposits (B5)	A : 11 (DZ)		Surface (C7)			Position (D2)	
	on Aerial Imagery (B7)		lain in Remarks)		Shallow Aqu		
Sparsely vegetated	d Concave Surface (B8	3)				aphic Relief (D4)	
					FAC-Neutra	l lest (D5)	
Field Observations:							
Field Observations:) Yes	No X Denth (inc	rhes).				
Surface Water Present?	-	No X Depth (inc		-			
Surface Water Present? Water Table Present?	Yes	No X Depth (inc	ches):	- Wotland Hyd	Irology Procent?	Voc	No. Y
Surface Water Present? Water Table Present? Saturation Present?	Yes		ches):	- - - Wetland Hyd	Irology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present?	Yes	No X Depth (inc	ches):	- - - - Wetland Hyd	Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No <u>X</u>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	NoX
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Data	Yes Yes	No X Depth (inc	ches):		Irology Present?	Yes	No X

VEGETATION - Use scientific names of plants.				Sampling Point:112-1U
				Dominance Test worksheet:
				Number of Dominant Species
	Absolute	Dominant	Indicator	·
Trans Otrations (Districts 20				That Are OBL, FACW, or FAC: 0 (A)
Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
1		_		Total Number of Dominant
2				Species Across All Strata: 3 (B)
3				
4		_		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6.				
7.				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			.	OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
1.				FAC species 0 x 3 = 0
2.		-	<u> </u>	FACU species 80 x 4 = 320
3		_		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4	_	_		
5				Column Totals: 80 (A) 320 (B)
6		_		Prevalence Index = B/A = 4.0
7				Hudroub, tie Veretetien Indicators
	0	= Total Cov	er	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)		_		1 - Rapid Test for Hydrophytic Vegetation
1. Trifolium pratense / Red clover	30	Yes	FACU	2 - Dominance Test is >50%
Trifolium repens / White clover	30	Yes	FACU	3 - Prevalence Index ≤3.0¹
-				4 - Morphological Adaptations (Provide supporting
3. Plantago lanceolata / Ribwort, English plantain	20	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
4		_		
5				¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				be present, unless distarbed of problematic.
8				Definitions of Vegetation Strata
9.				Dominions of Togotation Strata
10.				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11.				breast height (DBH), regardless of height.
		_		
12	80	= Total Cov	or	Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Mandy Vina Chrotyma (Dlat size) 20		_ = 10(a) C0V	Ci	
Woody Vine Stratum (Plot size: 30)				Herb - All herbaceous (non-woody) plants, regardless of
1		_		size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in
3				height.
4				
	0	= Total Cov	er	Hydrophytic
				Vegetation
				Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 112-1U

Depth	iption: (Describe to the Matrix			Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-9	10YR3/3	95	7.5YR5/6	5	C	M	Silt loam	
	·							
 Гуре: C=Con	centration, D=Depletio	n, RM=Reduc	ced Matrix, MS=Mask	ced Sand Gra	ains.		²Locatio	on: PL=Pore Lining, M=Matrix.
								for Problematic Hydric Soils ³ :
lydric Soil Ir Histosol			Polyvalue Below	, Surface (S) /I DD D I	MI DA 140E		luck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)	•	Thin Dark Surfa	•	,		· —	Prairie Redox (A16) (LRR K, L, R)
Black His		,	Loamy Mucky M			1430)		lucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed N		(LIXIX IX, L)			urface (S7) (LRR K, L)
	Layers (A5)	•	Depleted Matrix					lue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sur					ark Surface (S9) (LRR K, L)
	rk Surface (A12)	,	Depleted Dark S					anganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)	•	Redox Depressi					ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)	•		,				Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, ML	.RA 149B)					Other (Explain in Remarks)
N			hd				-4: -	
indicators of	hydrophytic vegetation	and wetland	nyarology must be pi	resent, unies	s disturbed	or problem	atic.	
	ayer (if observed):							
Type:	shoo's						Undein Cail Dea	namt2 Van Na V
Depth (inc	cnes):						Hydric Soil Pre	esent? Yes No _X
Remarks:								

Project/Site:	19020 - Sc	outh Ripley		City/Cour	nty:	Chautauqua (County	Sampling Date:	09/29/2020
Applicant/Owner:			nnectGen LLC	,	, <u> </u>	•	ate: New York		112-1W
Investigator(s):		łK JM		Section.	Township, Ran			wn of Ripley	
Landform (hillslope, terra			l ocal re		ave, convex, n		None	. ,	(%): 5-10%
Subregion (LRR or MLRA			Lat:		7755883	Long:	-79.6639316		`
Soil Map Unit Name:			oam, 8 to 15 per				NWI classification		PSS
Are climatic / hydrologic of				•		(If no	explain in Remark		
• •	_, Soil, or	• •	•			``	cumstances" prese	,	(No
· · · · · · · · · · · · · · · · · · ·			naturally p				ain any answers in		<u> </u>
							•	•	
SUMMARY OF FINI		i site map s			onit iocatio	nis, transec	is, important	ieatures, etc.	
Hydrophytic Vegetation	n Present?	Yes X	No		Is the Samp	led Area			
Hydric Soil Present?		Yes X	No	_	within a We	tland?	Yes X	No	_
Wetland Hydrology Pre	esent?	Yes X	No	_	If yes, option	al Wetland Site	e ID:	112	
Remarks: (Explain alte	ernative procedures	here or in a se	narate report \						
itemarks. (Explain alte	mative procedures	illere or ill a se	parate report.)						
HYDROLOGY									
Wetland Hydrology In	ndicators:								
Primary Indicators (mir		ired: check all th	nat apply)				Secondary Indica	ators (minimum of to	wo required)
Surface Water (A			Water-Staine	d Leaves (I	B9)			I Cracks (B6)	
High Water Table	•	_	Aquatic Faun	•	,			atterns (B10)	
Saturation (A3)	(* 1)	-	Marl Deposits				Moss Trim L		
Water Marks (B1)	1	_	Hydrogen Su		(C1)			Water Table (C2)	
Sediment Deposit		<u> </u>	Oxidized Rhiz			te (C3)	Crayfish Bu		
Drift Deposits (B3	` '		Presence of F	-	-	13 (03)		/isible on Aerial Ima	geny (CQ)
Algal Mat or Crus	•	_	_		n Tilled Soils (Ce)		Stressed Plants (D1	
_ ·		_	_		-	C0)		•)
Iron Deposits (B5)	•		Thin Muck Su					Position (D2)	
	e on Aerial Imagery	· ·	Other (Explai	n in Kemai	KS)		Shallow Aqu		
Sparsely vegetate	ed Concave Surface	е (во)						aphic Relief (D4)	
							X FAC-Neutra	i iesi (D5)	
Field Observations:									
Surface Water Present	t? Yes	No X	Depth (inch	es).					
Water Table Present?	Yes	No X							
Saturation Present?	Yes	NoX	_ · ·	· —		Wetland Hyd	rology Present?	Yes X	No
(includes capillary fring		110X	Deptil (mon		-	Wedana riya	rology r resent.	103 <u>X</u>	
(moldaes capillary liftig	<i>jc)</i>								
Describe Recorded Da	ata (stream gauge,	monitoring well	, aerial photos, p	revious ins	spections), if a	vailable:			
	· • • • • • • • • • • • • • • • • • • •				. ,,				
Remarks:									

VEGETATION - Use scientific names of plants.				Sampling Point:112-1W
Tree Stratum (Plot size:				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6		= Total Cov		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
Salix / Willow Wiburnum dentatum var. dentatum / Southern arrowwood Spiraea alba / White meadowsweet Source	_	Yes Yes Yes	FACW FACW	FACW species 50 x 2 = 100 FAC species 30 x 3 = 90 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 160 (A) 270 (B) Prevalence Index = B/A = 1.69
7. Herb Stratum (Plot size: 5) 1. Carex vulpinoidea / Fox sedge, Brown fox sedge 2. Scirpus cyperinus / Woolgrass 3. Euthamia graminifolia / Flat-top goldentop 4. 5.	50 50 30 30	= Total Cov Yes Yes Yes Yes	OBL OBL FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.0¹ 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:30) 1234.	110			Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
T	0	= Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			

SOIL Sampling Point: 112-1W

Depth	ription: (Describe to the Matrix			r Features				,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	3
0-6	10YR3/1	90	7.5YR6/6	10	С	M	Loam			
6-12	10YR6/2	80	7.5YR5/8	20	C	M	Loam			
	. 									
	· -		-							
	· 									
	· 									
	·									
				-		 .		-		
				-		 .		-		
Type: C=Co	ncentration, D=Depletio	n, RM=Redu	uced Matrix, MS=Masl	ked Sand Gr	ains.		²Loca	tion: PL=P	ore Lining, M=	-Matrix.
		·	,							
Hydric Soil I			Daharaha Dalam	. 0 (0)	0)	MI DA 440F			ematic Hydric	
Histosol	` '		Polyvalue Belov)) (LRR K, L, I	-
	oipedon (A2)		Thin Dark Surfa			(149B)			edox (A16) (L	
	stic (A3)		Loamy Mucky M		(LKK K, L)					(LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyed NX Depleted Matrix					-	7) (LRR K, L v Surface (S8)	-
	d Below Dark Surface (/	Δ11)	X Redox Dark Sur						ce (S9) (LRR	
	ark Surface (A12)	311)	Depleted Dark S) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depressi					-	-	9) (MLRA 149B)
	Gleyed Matrix (S4)			(. 0)						144A, 145, 149B)
	Redox (S5)								erial (F21)	, , , , , , , , , , , , , , , , , , ,
	Matrix (S6)								ark Surface (Ti	F12)
	rface (S7) (LRR R, ML	.RA 149B)							n Remarks)	,
							<u> </u>			
Indicators of	hydrophytic vegetation	and wetland	hydrology must be p	resent, unles	ss disturbed	or problem	atic.			
	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil P	resent?	Yes X	No
Remarks:										

Project/Site:	19020 -	South Ripley	City/C	County: Chau	itauqua County	Sampling Date:	09/29/2020
Applicant/Owner:			nnectGen LLC		State: New York		113-1U
Investigator(s):		HK JM		on, Township, Range:		wn of Ripley	
Landform (hillslope, terr	race etc).			oncave, convex, none):			(%): 3-5
Subregion (LRR or MLF				· -	.ong: -79.760404		`
Soil Map Unit Name:			usia channery silt loam		NWI classificati		one
Are climatic / hydrologic					(If no, explain in Remark		Offic
, ,			significantly distu		(ii iio, explain iii ixemair rmal Circumstances" prese	,	No
			naturally problem		ed, explain any answers in		110
	_				•	•	
SUMMART OF FIR	NDINGS - Atta	ch site map s	snowing sampling	point locations, ti	ransects, important	reatures, etc.	
Hydrophytic Vegetation	on Present?	Yes		Is the Sampled Ar	ea		
Hydric Soil Present?		Yes	No X	within a Wetland?	Yes	NoX	-
Wetland Hydrology P	resent?	Yes	NoX	If yes, optional Wet	tland Site ID:		
Remarks: (Explain all	ternative procedure	es here or in a se	parate report.)				
HYDROLOGY							
Wetland Hydrology	Indicators:						
Primary Indicators (m		united: check all th	nat annly)		Secondary Indic	ators (minimum of tw	vo required)
Surface Water (A		unca, check an u	Water-Stained Leave	as (R0)		l Cracks (B6)	vo required)
High Water Table	•	_	Aquatic Fauna (B13	` '		atterns (B10)	
Saturation (A3)	(AZ)	_	Marl Deposits (B15)		Moss Trim I		
Water Marks (B	1)	_	Hydrogen Sulfide O			Water Table (C2)	
Sediment Depos	•	_		res on Living Roots (C3)			
	` '	_	_	• ,	 ·	/isible on Aerial Ima	aon. (CO)
Drift Deposits (B	•	_	Presence of Reduce	` '			
Algal Mat or Cru		_	_	on in Tilled Soils (C6)		Stressed Plants (D1))
Iron Deposits (B	•		_ Thin Muck Surface (Position (D2)	
	le on Aerial Image		Other (Explain in Re	marks)	Shallow Aq		
Sparsely vegeta	ated Concave Surfa	ace (B8)			Microtopogi FAC-Neutra	raphic Relief (D4)	
					1 AO-Neulla	iii Test (D3)	
Field Observations:	:						
Surface Water Prese	nt? Yes	No X	Depth (inches):				
Water Table Present?	? Yes	NoX	Depth (inches):				
Saturation Present?	Yes	NoX	Depth (inches):	Wetla	and Hydrology Present?	Yes	No X
(includes capillary frir	nge)		_				
Describe Recorded D	Data (stream gauge	e, monitoring well	, aerial photos, previous	s inspections), if available	e:		
Domarko							
Remarks:							

Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC; 0	VEGETATION - Use scientific names of plants.				Sampling Point: 113-1U
Absolute Dominant Indicator Species Status Total Number of Dominant Species That Are OBL, FACW, or FAC:					Dominance Test worksheet:
Absolute Open Indicator Species Status Total Number of Dominant Indicator Total Number of Dominant Species Across All Strata:					
Tree Stratum					·
Total Number of Dominant Species Across All Strata: 3 (B)		Absolute		Indicator	That Are OBL, FACW, or FAC: 0 (A)
Species Across All Strata: 3 (B)	Tree Stratum (Plot size: 30)	%Cover	Species?	Status	
Species Across All Strata: 3 (B)	1.				Total Number of Dominant
3	2				Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)					opedies / toross / tir etrata.
That Are OBL, FACW, or FAC:		_			
Prevalence Index worksheet: Total 'K Cover of: Multiply by: OBL species 0	4				•
Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Available of the plant of the plant by: Total Cover	5				That Are OBL, FACW, or FAC: 0.0 (A/B)
Prevalence Index worksheet: Multiply by:					
Sapling/Shrub Stratum (Plot size: 15)					Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:	···		- Total Cav		Total % Cover of: Multiply by:
1.	0 11 101 1 01 1 1 1 1 1		_ = 10tal C0V	EI	
FAC species					
2.	1				
3.	2.				· — — — — — — — — — — — — — — — — — — —
4.	3.				FACU species 100 x 4 = 400
Column Totals: 100	4				UPL species 0 x 5 = 0
Prevalence Index = B/A = 4.0					Column Totals: 100 (A) 400 (B)
Herb Stratum (Plot size: 5) 1. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 40 Yes FACU 2 Daucus / Wild carrot 40 Yes FACU 4. Trifolium pratense / Red clover 20 Yes FACU 4. Problematic Hydrophytic Vegetation (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* (Explain) 4. Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation* 1. Rapid Text for Hydrophytic Vegetation Indicators* 1. R		_		 	
Herb Stratum (Plot size: 5 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Daucus / Wild carrot 40 Yes FACU 2 - Daucus / Wild carrot 40 Yes FACU 3 - Trifolium pratense / Red clover 20 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1	6				Prevalence index – b/A – 4.0
Herb Stratum (Plot size: 5 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Daucus / Wild carrot 40 Yes FACU 2 - Daucus / Wild carrot 40 Yes FACU 3 - Trifolium pratense / Red clover 20 Yes FACU 4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation*) 1	7				Hydrophytic Vocatation Indicators:
Herb Stratum (Plot size: 5 5 1 - Rapid lest for Hydrophytic Vegetation 2 - Daucus / Wild carrot			= Total Cov	er	
1. Lotus corniculatus / Bird's foot trefoil, Bird's-foot trefoil 2. Daucus / Wild carrot 3. Trifollum pratense / Red clover 4.	Herb Stratum (Plot size: 5	-	_		1 - Rapid Test for Hydrophytic Vegetation
2. Daucus / Wild carrot 3. Trifolium pratense / Red clover 4.		40	Vac	FACIL	2 - Dominance Test is >50%
3. Trifolium pratense / Red clover 4	· · · · · · · · · · · · · · · · · · ·				3 - Prevalence Index ≤3.01
Problematic Hydrophytic Vegetation (Explain)	2. Daucus / Wild carrot		Yes	FACU	4 - Morphological Adaptations (Provide supporting
4	Trifolium pratense / Red clover	20	Yes	FACU	1 -
5	4.				Problematic Hydrophytic Vegetation (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata	_				
be present, unless disturbed or problematic. Definitions of Vegetation Strata Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes NoX					¹ Indicators of hydric soil and wetland hydrology must
8.					be present, unless disturbed or problematic.
9.		_			
9	8				Definitions of Vegetation Strata
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Vegetat	9.				
11					Tree Woody plants 3 in (7.6 cm) or more in diameter at
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height.					
Woody Vine Stratum (Plot size: 30) 1.	40				
Woody Vine Stratum (Plot size: 30) 1.	12.				
1		100	_ = Total Cov	er	greater than or equal to 3.28 ft (1 m) tall.
1	Woody Vine Stratum (Plot size:)				Herb - All herbaceous (non-woody) plants, regardless of
3	1.				
3	2.				Weedy vines All woody vines greater than 2.29 ft in
4					
		_	- -	 	neight.
Vegetation Present? Yes NoX	4	_		 	
Present? Yes No X		0	_ = Total Cov	er	
					Vegetation
					Present? Yes No X
Remarks: (Explain alternative procedures here or in a separate report.)					
	Remarks: (Explain alternative procedures here or in a separate	e report.)			

SOIL Sampling Point: 113-1U

Depth	ription: (Describe to th Matrix	<u> </u>		x Features				•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remark	is	
0-4	10YR3/3	100						Mostly gra	avel fill		
	·										
Type: C=Coi	ncentration, D=Depletion	ı, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Loca	ition: PL=Po	ore Lining, M	=Matrix.	
lydric Soil I	ndicators:						Indicators	for Proble	ematic Hydr	ic Soils³:	
Histosol			Polyvalue Belov	w Surface (S8	3) (LRR R,M	LRA 149E) (LRR K, L,		B)
	pipedon (A2)		Thin Dark Surfa						dox (A16) (-
	istic (A3)		Loamy Mucky N			,			t or Peat (S3		
	en Sulfide (A4)		Loamy Gleyed		. ,,				7) (LRR K, l		. ,
	d Layers (A5)		Depleted Matrix					-	Surface (S8	=	L)
	d Below Dark Surface (A	.11)	Redox Dark Su						ce (S9) (LRI		,
	ark Surface (A12)	,	Depleted Dark	, ,					Masses (F1		. L. R)
	Aucky Mineral (S1)		Redox Depress					-	olain Soils (F		
	Gleyed Matrix (S4)								A6) (MLRA		
	Redox (S5)							Parent Mate			,
	Matrix (S6)								rk Surface (1	F12)	
	rface (S7) (LRR R, MLI	RA 149B)						(Explain in		,	
	(e., (=,=.	,						(=xp:a			
3Indicators of	hydrophytic vegetation a	and wetland	hydrology must be p	resent, unles	s disturbed o	r problem	atic.				
Postrictivo I	_ayer (if observed):										
Type:	ayer (ii observeu).										
Depth (in	iches).						Hydric Soil P	resent?	Yes	No	X
Ворит (пт							Tiyane con i				
Remarks:											
	Refusal at multiple locat	ions									

Project/Site:	19020 -	South Ripley		City/Cour	ntv:	Chautauqua (County	Sampling Date:	09/29/2020
Applicant/Owner:			nnectGen LLC	-1.9.		•	ate: New York		113-1W
Investigator(s):		HK JM		Section.	Township, Ran			wn of Ripley	
Landform (hillslope, terr	race, etc):	Hillslope	Local re		ave, convex, no		None	Slope	: (%): 3-5
Subregion (LRR or MLF	· · ·		Lat:	•	19569648	Long:	-79.760501		` '
Soil Map Unit Name:	, 		lusia channery si				NWI classification		None
Are climatic / hydrologic	c conditions on the				X No	(If no,	- explain in Remark	s.)	
Are Vegetation	, Soil ,	or Hydrology	significantl	ly disturbed	d? A	re "Normal Cire	cumstances" prese	ent? Yes	X No
	, Soil ,			roblematic	? (It	f needed, expla	ain any answers in	Remarks.)	
SUMMARY OF FIN						•	•	•	
Hydrophytic Vegetation		Yes X			Is the Samp		,		
Hydric Soil Present?		Yes X	No No	_	within a Wet		Yes X	No	
Wetland Hydrology P		Yes X	No	_		al Wetland Site		113	_
Trottana riyarology r				_		ai Wolland Oll		110	
Remarks: (Explain al	ternative procedur	es here or in a se	eparate report.)						
HYDROLOGY									
Wetland Hydrology	Indicators								
Primary Indicators (m		uirod: chock all ti	hat apply)				Cocondany Indias	ators (minimum of	two required)
Surface Water (A	-	ulleu, check all ti	Water-Staine	d Leaves ('BO)			ators (minimum of t I Cracks (B6)	.wo required)
High Water Table	•		Aquatic Faun	•	D9)			atterns (B10)	
Saturation (A3)	` '	_	Marl Deposits				Moss Trim L		
Water Marks (B			Hydrogen Su		(C1)			Water Table (C2)	
Sediment Depos	,	<u> </u>	C Oxidized Rhiz			s (C3)	Crayfish Bu		
Drift Deposits (B			Presence of I		_	3 (00)		/isible on Aerial Im	agery (C9)
Algal Mat or Cru	•	_	_		n Tilled Soils (C6)		Stressed Plants (D	
Iron Deposits (B		_	Thin Muck Su		•	30)		Position (D2)	',
I — ' '	ole on Aerial Image	rv (B7)	Other (Explai	, ,			Shallow Aqu		
	ated Concave Surfa		_					aphic Relief (D4)	
		(= 5)					X FAC-Neutra		
							_ 		
Field Observations:									
Surface Water Prese		NoX	' '						
Water Table Present?		NoX	' `	· —					
Saturation Present?	Yes	NoX	Depth (inch	es):		Wetland Hyd	rology Present?	Yes X	No
(includes capillary frin	nge)								
Describe Recorded D	Data (stream gauge	e. monitorina well	l. aerial photos, r	orevious ins	spections), if a	vailable:			
		.,	,, р						
Remarks:									

/EGETATION - Use scientific names of plants.				Sampling Point:113-1W
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
<u>Tree Stratum</u> (Plot size:	%Cover	Species?	Status	Total Number of Dominant Species Across All Strata: 2 (B)
3		_		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)
6		= Total Cov	er	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:) 1. Salix / Willow 2	50	Yes	FACW	FACW species 110 x 2 = 220 FAC species 0 x 3 = 0
3.4.5.				FACU species 0 $x = 0$ $x = 0$ UPL species 0 $x = 0$ $x = 0$ Column Totals: $x = 0$ (A) $x = 0$ (B)
6. 7.		= Total Cov		Prevalence Index = B/A = 2.0 Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:5ree) 1. Phalaris arundinacea / Reed canarygrass, Reed canary grass 2		Yes	FACW	X 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index ≤3.01
3. 4.				4 - Morphological Adaptations (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)
6. 7.				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
11 12				breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
<u>Woody Vine Stratum</u> (Plot size:30) 12.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. 4.				Woody vines - All woody vines greater than 3.28 ft in height.
	0	_ = Total Cov	er	Hydrophytic Vegetation Present? Yes X No
Remarks: (Explain alternative procedures here or in a separate	report.)			-1

SOIL Sampling Point: 113-1W

Depth	iption: (Describe to the Matrix			Features			- ,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-6	10YR4/1	90	7.5YR5/6	10	C	M	Loam	
				· ——				
				· 				
				·				
			-	· 				
	-			·		·	· ·	
						 -		
							_	
ype: C=Con	centration, D=Depletio	n, RM=Redu	ced Matrix, MS=Mask	ed Sand Gra	ains.		² Locatio	on: PL=Pore Lining, M=Matrix.
dric Soil Ir	ndicators:						Indicators for	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Below	Surface (S8	3) (LRR R.I	MLRA 149E		uck (A10) (LRR K, L, MLRA 149B)
_	ipedon (A2)		Thin Dark Surface	•	, .		· —	Prairie Redox (A16) (LRR K, L, R)
Black His			Loamy Mucky M			ŕ		ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	Natrix (F2)				urface (S7) (LRR K, L)
Stratified	Layers (A5)		X Depleted Matrix	(F3)			Polyvalı	ue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Redox Dark Sur					ark Surface (S9) (LRR K, L)
_	rk Surface (A12)		Depleted Dark S					anganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Redox Depressi	ons (F8)				ont Floodplain Soils (F19) (MLRA 149B)
_	leyed Matrix (S4)							Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							rent Material (F21)
	Matrix (S6) face (S7) (LRR R, ML	DA 1/10B)						nallow Dark Surface (TF12) Explain in Remarks)
Dark Our	iacc (OI) (ERRIR, INIE	INA 143D)					Other (i	Explain in Remarks)
ndicators of	hydrophytic vegetation	and wetland	hydrology must be pr	esent, unles	s disturbed	or problema	atic.	
lootriotivo I	nyor (if abaamyad).							
Type:	ayer (if observed): Rock							
Depth (inc		6					Hydric Soil Pre	sent? Yes X No
Deptii (iiit		<u> </u>					Tryunc don't le	Sent: ICS X NO
emarks:								

Project/Site:	South Ripley Sol	lar and Storage Pro	ject	City/Count	ty: Chauta	ıuqua		Sampling Date:	Jul 30, 202	20	
Applicant/Owner:	ConnectGEN, LL						State: NY	Sampling Point:	DP-001		
Investigator(s):	James Ireland			Section, To	wnship, Range:	Tow	n of Ripley	_			
Landform (hillslope,		Depression			(concave, conv				Slope (%):	2	
	•	•									
Subregion (LRR or	•	LRR R		Lat: 42.196810°	<u>N</u> L	Long: <u>79.7</u>	-		Datum: N	ADos	
Soil Map Unit Name	e: VoA - Volusia	a channery silt loam	ı; 0 to 3 percen	ıt slopes			NWI classi	fication: Not Mapp	ed		
Are climatic / hydro	logic conditions on	n the site typical for t	this time of year	ar? Yes	<u>x</u> No	o	(If no, explain in	Remarks.)			
Are Vegetation	, Soil	, or Hydrology	signif	ficantly disturbed?	? Aı	re "Normal	Circumstances" p	resent? Yes	x No		
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	(If	needed, ex	xplain any answe	rs in Remarks.)			
SUMMA	ARY OF FIND	INGS – Attach	site map s	howing sam	pling point	location	ıs, transects,	, important feat	lures, etc.		
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area					
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No			
Wetland Hydrolog		Yes	x No		If yes, optional	l Wetland S	Site ID: 00°	1			
HYDROLOGY											
Wetland Hydrolo	ogy Indicators:	_			_	_	Secondary I	Indicators (minimum	of two require	ed)	
Primary Indicators	s (minimum of one	e is required; check a	all that apply)				Surface S	oil Cracks (B6)			
Surface Wat	ter (A1)		Water-S	Stained Leaves (B	39)		Drainage	Patterns (B10)			
High Water	Table (A2)		Aquatic	Fauna (B13)		x Moss Trim Lines (B16)					
Saturation (A	A3)		Marl De	eposits (B15)			Dry-Seaso	on Water Table (C2)			
Water Marks	s (B1)		Hydrogo	en Sulfide Odor (0	C1)		Crayfish B	Burrows (C8)			
	eposits (B2)		_	ed Rhizospheres o	_	(C3)		Visible on Aerial Im			
Drift Deposit			_	ce of Reduced Iro				r Stressed Plants (D	1)		
Algal Mat or	* *		_	Iron Reduction in	Tilled Soils (C6	6)		nic Position (D2)			
Iron Deposit	• •	(D.T)	_	uck Surface (C7)				quitard (D3)			
	Visible on Aerial Im		Other (E	Explain in Remark	(S)			graphic Relief (D4)			
	egetated Concave S	Surface (B8)					x FAC-Neut	ral Test (D5)			
Field Observatio		· · · N-	D4h								
Surface Water Pr		Yes No _		` '		141 -41	··· Indana Basa	10 V 1	/ N-		
Water Table Pres		Yes No _		(inches):		Wetianu	d Hydrology Pres	sent? Yes <u> </u>	No_		
Saturation Preser (includes capillary		Yes No _	x Deptn	(inches):							
<u> </u>	· · · ·	auge, monitoring we	aerial photo	nrevious inspe	ctions), if availa	ahle.					
	54 2 4 ta (2 ta 2 ta 3	10g0,	m, ao	o, p. o	01101.10,,	10.0.					
Remarks:											
1											
1											
1											

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer rubrum	60	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	6 (A)
2. Fraxinus pennsylvanica	40	Yes	FACW		(,,
3				Total Number of Dominant Species Across All Strata:	6 (B)
~				<u> </u>	(2)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B
5					(, , ,
S				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
	100	= Total Cover		OBL species 0	
apling/Shrub Stratum (Plot size: 15 ft.)				'	x 2 = <u>170</u>
. Fraxinus pennsylvanica	20	Yes	FACW	FAC species 110	x 3 = <u>330</u>
2.				FACU species 10	
L				UPL species 0	x 5 = 0
				Column Totals: 205	(A) <u>540</u> (B)
				Prevalence Index = B/A = 2	2.63
5					
S				Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt	
·				X 2 - Dominance Test is >50%	
	20	= Total Cover		X 3 - Prevalence Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	
. Geum canadense	30	Yes	FAC	data in Remarks or on a	separate sheet)
. Fraxinus pennsylvanica	25	Yes	FACW	Problematic Hydrophytic Ve	getation ¹ (Explain)
. Rubus allegheniensis	10	No	FACU	¹ Indicators of hydric soil and wetla	
Solidago rugosa	20		FAC	be present, unless disturbed or pr	
		162	FAC	Definitions of Vagetation Strate	
				Definitions of Vegetation Strata	
S				Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardles:	
, <u> </u>					· ·
3.				Sapling/shrub – Woody plants le and greater than or equal to 3.28	
)					,
10.				Herb – All herbaceous (non-wood size, and woody plants less than	
1					
12.				Woody vines – All woody vines g height.	reater than 3.28 ft in
	85	= Total Cover			
oody Vine Stratum (Plot size: 30 ft.)		- 10101 00101			
				Hydrophytic	
·				Vegetation	
				Present? Yes _	X No
	0	= Total Cove	r		
				-	

SOIL Sampling Point: DP-001 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/2 80 10YR 4/6 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes Χ Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Pro	oject	City/Count	ty: Chauta	auqua		Sampling Date:	Jul 30, 202	20	
Applicant/Owner:	ConnectGEN, LL	 _C					State: NY	Sampling Point:	DP-002		
Investigator(s):	James Ireland			Section, To	wnship, Range	e: To	own of Ripley	_			
Landform (hillslope,		Hillslope			(concave, conv			,	Slope (%):	1	
	·	LRR R		Lat: 42.196412°					Datum: N	 ∆D83	
Subregion (LRR or			2: 0		<u>N</u>	Long. <u>13</u>				AD00	
Soil Map Unit Name		a channery silt loan						sification: Not Mapp	ped		
Are climatic / hydrol	ū	**	•			o	(If no, explain i	n Remarks.)			
	, Soil		· · · · · · · · · · · · · · · · · · ·			re "Norm	al Circumstances'	present? Yes	x No		
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(If	f needed,	, explain any answ	ers in Remarks.)			
SUMMA	ARY OF FINDI	NGS – Attach	ı site map	showing sam	pling point	locatio	ons, transect	s, important feat	tures, etc.		
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area			_		
Hydric Soil Prese		Yes	No No		within a Wetl		Yes _	No	x		
Wetland Hydrolog		Yes	No	-	If yes, optiona	al Wetland	d Site ID:				
HYDROLOGY											
Wetland Hydrolo	gy Indicators:		_		_	_	Secondar	y Indicators (minimum	of two require	ed)	
Primary Indicators	s (minimum of one	is required; check	all that apply)				Surface	Soil Cracks (B6)			
Surface Wat	er (A1)		Water-	-Stained Leaves (B	39)		Drainage	e Patterns (B10)			
High Water	Γable (A2)		Aquatio	ic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A	•			Deposits (B15)		Dry-Season Water Table (C2)					
Water Marks				gen Sulfide Odor (0	=			Burrows (C8)			
Sediment De	. , ,		_	ed Rhizospheres o	_	(C3)		on Visible on Aerial Im			
Drift Deposit	•			nce of Reduced Iro	` '	- ~ \		or Stressed Plants (D	1)		
Algal Mat or	* *			nt Iron Reduction in	Tilled Solls (C	6)		phic Position (D2)			
Iron Deposits	• •	(P7)		Muck Surface (C7)	lea\			Aquitard (D3)			
	isible on Aerial Image getated Concave S		Other ((Explain in Remark	KS)			oographic Relief (D4) utral Test (D5)			
		зипасе (Бо)					FACTIVE	utrai Test (D5)			
Field Observatio		Yes No	v Dontk	r (inches):							
Surface Water Pro				, ,		Watla	··· U-dralogy Dr		No	Y	
Water Table Pres		Yes No		h (inches):		Wella	and Hydrology Pr	esent? Yes	'NU		
Saturation Preser (includes capillary		Yes No	х Берин	ı (inches):							
	y iringe) ed Data (stream ga	auge, monitoring w	vell, aerial phot	os, previous inspe	ctions), if availa	able:					
	•	_			**						
Remarks:											
No wetland hydrolo	igy observeu										

Tree Stratum (Plot size: 30 ft.)		Dominant Indicate Species? Status	I Dominanco Toet workshoot:
Populus tremuloides	40	Yes FAC	Number of Dominant Species
Acer rubrum			
3.			Total Number of Dominant Species Across All Strata: 5 (B)
			<u> </u>
5			Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6.			
7.			Prevalence Index worksheet: Total % Cover of: Multiply by:
		Fotal Cover	OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)	<u> </u>		FACW species $0 x2 = 0$
Acer rubrum	15	Yes FAC	FAC species 30 x 3 = 90
2.			FACU species 90 x 4 = 360
3.			UPL species 30 x 5 = 150
4.			Column Totals: 150 (A) 600 (B)
5.			Prevalence Index = B/A = 4
6			Hydrophytic Vegetation Indicators:
7.			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	15=	Total Cover	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Rubus allegheniensis	50	Yes FAC	data in Remarks or on a separate sheet)
Fragaria X ananassa	30		
-		res UPL	Indicators of hydric soil and wetland hydrology must
3			be present, unless disturbed or problematic.
4			<u> </u>
5			Definitions of Vegetation Strata:
6.			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7			Sapling/shrub – Woody plants less than 3 in. DBH
0.			and greater than or equal to 3.28 ft (1 m) tall.
9			Herb – All herbaceous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11			Woody vines – All woody vines greater than 3.28 ft in
12			height.
	80 =	Total Cover	
Woody Vine Stratum (Plot size: 30 ft.)			
1			Hydrophytic
2			Vegetation
3.			Present?
4			
	0 =	Total Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)		

Sampling Point: DP-002

SOIL Sampling Point: DP-002 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 0-20 10YR 4/3 85 10YR 3/2 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks:

Project/Site:	South Ripley So	olar and Storage Proj	ect	City/Coun	ty: Chautau	uqua		Sampling Date:	Jul 30, 202	20	
Applicant/Owner:	ConnectGEN, LI	 LC				St	tate: NY	Sampling Point:	DP-003		
Investigator(s):	James Ireland			Section, To	wnship, Range:	Town	n of Ripley	_			
Landform (hillslope,		Hillslope			(concave, conve		Convex	,	Slope (%):	2	
		•		Lat: 42.195987°	•	,			Datum: N		
Subregion (LRR or	•	LRR R		· .	N L	ong. <u>13.17</u>		· · · · · · · · · · · · · · · · · · ·		ADOO	
Soil Map Unit Name		ne sandy loam; stron					NWI classi		ped		
•	_	n the site typical for the	•			((If no, explain in	Remarks.)			
		, or Hydrology				e "Normal C	Circumstances" p	present? Yes	X No		
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	(If	needed, exp	plain any answei	rs in Remarks.)			
SUMMA	ARY OF FIND	INGS – Attach	site map s	howing sam	pling point	locations	s, transects,	, important feat	tures, etc.	ı	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	d Area					
Hydric Soil Prese		Yes	No	Х	within a Wetla		Yes	No	x		
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optional	Wetland Sit	te ID:				
HYDROLOGY											
Wetland Hydrolo	nav Indicators:						Secondary	Indicators (minimum	of two require	ed)	
_		e is required; check a	that annly)					oil Cracks (B6)	OI two roquiis	<i>50)</i>	
Surface Wat		7 15 required, officer a		Stained Leaves (E				Patterns (B10)			
High Water			_	: Fauna (B13)	13)			n Lines (B16)			
Saturation (A			_	eposits (B15)		Dry-Season Water Table (C2)					
Water Marks	•			en Sulfide Odor (C1)			Burrows (C8)			
Sediment De			_	d Rhizospheres o	•	(C3)		n Visible on Aerial Im	nagery (C9)		
Drift Deposit	:s (B3)		Presend	ce of Reduced Iro	on (C4)		Stunted or	r Stressed Plants (D	1)		
Algal Mat or	Crust (B4)		Recent	Iron Reduction in	Tilled Soils (C6	i)	Geomorph	hic Position (D2)			
Iron Deposits	s (B5)		Thin Mu	uck Surface (C7)			Shallow A	quitard (D3)			
	isible on Aerial Im		Other (F	Explain in Remark	ks)			graphic Relief (D4)			
Sparsely Ve	getated Concave	Surface (B8)					FAC-Neut	tral Test (D5)			
Field Observatio											
Surface Water Pro		Yes No								v	
Water Table Pres		Yes No _		(inches):		Wetland I	Hydrology Pres	sent? Yes	No _	<u>X</u>	
Saturation Preser		Yes No	x Depth	(inches):							
(includes capillary Describe Recorde		auge, monitoring wel	II. aerial photo	s. previous inspe	ctions), if availal	ble:					
	74 = 2 (2 U	aug_,	, ,	,	J						
Remarks: No wetland hydrolo	nav observed										
No wedana nyare.e	igy observed										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	sheet:
,	70 OOVC1	Ореспез	Otatus	Number of Dominant Sp	
1	_			That Are OBL, FACW, o	or FAC: 1 (A
2				Total Number of Domina	
3				Species Across All Strat	a: <u>2</u> (E
4				Percent of Dominant Sp	
5				That Are OBL, FACW, o	or FAC: 50 (A
6				Prevalence Index work	rahaati
7				Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1					x 3 = 30
2.				FACU species 130	x 4 = 520
				UPL species 0	x 5 = 0
3				Column Totals: 140	(A) <u>550</u>
4				Daniela I I	D/A 2.02
5.				Prevalence Index	= D/A = 3.92
6				Hydrophytic Vegetatio	
7				1 - Rapid Test for H 2 - Dominance Tes	Hydrophytic Vegetation
	0	= Total Cover		3 - Prevalence Inde	
erb Stratum (Plot size: 5 ft.)		- 10tai 00v0i			Adaptations ¹ (Provide supporting
Lolium perenne	80	Yes	FACU	data in Remark	s or on a separate sheet)
2. Plantago major	30		FACU	Problematic Hydro	phytic Vegetation ¹ (Explain)
3. Trifolium repens	20	No	FACU		and wetland hydrology must
				be present, unless distu	·
4. Galium boreale		No	FAC		
5				Definitions of Vegetation	
6				1	n. (7.6 cm) or more in diameter
7				at breast height (DBH),	regardless of fielght.
B					y plants less than 3 in. DBH
9.	_			and greater than or equa	
10				Herb – All herbaceous (size, and woody plants I	non-woody) plants, regardless of
11					
12.				Woody vines – All wood height.	dy vines greater than 3.28 ft in
	140	= Total Cover			
loody Vina Stratum (Diet size, 20 ft)	140	- Total Cover			
oody Vine Stratum (Plot size: 30 ft.)	_				
				Hydrophytic	
·	_			ya.opyao	
				Vegetation	v
				_	/es X No
2. 3.	- — - —			I -	res <u>X</u> No
1		= Total Cover		I -	/es <u>X</u> No

SOIL Sampling Point: DP-003 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks:

Project/Site:	South Ripley Sol	lar and Storage Project	t	City/Cour	nty: Chauta	auqua		Sampling Date:	Jul 30, 202	20	
Applicant/Owner:	ConnectGEN, LLC	.c					State: NY	Sampling Point:	DP-004		
Investigator(s):	James Ireland		(Section, T	ownship, Range	e:	Town of Ripley				
Landform (hillslope,		Hillslope			ef (concave, con				Slope (%):	2	
	•	LRR R		Lat: 42.198162	·				Datum: N		
Subregion (LRR or	·			_ Lat. 42.130102	<u> </u>	Long.	<u>-</u>			ADOO	
Soil Map Unit Name		silt loam; 3 to 8 percent						assification: Not Mapp	ped		
· ·	-	n the site typical for this	-			lo	(If no, explain	n in Remarks.)			
		, or Hydrology				\re "Norr	rmal Circumstances	s" present? Yes	X No	·	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (I	f neede	d, explain any ans	swers in Remarks.)			
SUMMA	ARY OF FINDI	NGS – Attach sit	te map s	showing sam	npling point	locat	tions, transec	ets, important fea	tures, etc.		
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	<u>———</u> а				
Hydric Soil Prese		Yes	No		within a Wetl			No	x	l	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetlaı	and Site ID:				
TWEED LOOK											
HYDROLOGY										**	
Wetland Hydrolo								ary Indicators (minimum	of two require	ed)	
-		e is required; check all the						e Soil Cracks (B6)			
Surface Wat		_	_	-Stained Leaves (I	B9)			ge Patterns (B10)			
High Water		_	-	c Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A	•	_		eposits (B15)	(04)			eason Water Table (C2)	1		
Water Marks		_		gen Sulfide Odor ((02)		sh Burrows (C8)	(CO)		
Sediment De Drift Deposit		_		ed Rhizospheres once of Reduced Iro	_	; (U3)		tion Visible on Aerial Im d or Stressed Plants (D			
Algal Mat or		_		t Iron Reduction in		`6\		orphic Position (D2)	'1)		
Iron Deposits	, ,	_	_	luck Surface (C7)	,	,6)		w Aquitard (D3)			
	/isible on Aerial Ima			(Explain in Remar				opographic Relief (D4)			
_	egetated Concave S	_	_ 0	Explain III Tollian	inoj			leutral Test (D5)			
Field Observatio		,									
Surface Water Pro		Yes Nox	Depth	ı (inches):							
Water Table Pres		Yes No x		n (inches):		Wet	tland Hydrology P	Present? Yes	No	X	
Saturation Preser		Yes No x									
(includes capillary											
Describe Recorde	ed Data (stream ga	auge, monitoring well, a	aerial photo	os, previous inspe	ections), if avail	able:					
Remarks:											
No wetland hydrolo	ogy observed										

							Point: DP-004	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
Acer saccharum	80	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
2. Prunus serotina	20	Yes	FACU	711017110 032, 11	7.077, 01 1 7.0.		•	_('')
			17.00	Total Number of Species Across			4	(B)
3				Opecies Acioss i	All Ottata.		-	_(D)
4				Percent of Domin			25	(A/B
5				That Are OBL, 1	ACW, OIT AC.		23	_(A/D
5				Prevalence Inde	ex worksheet:			
7				Total % Co		М	ultiply by:	_
	100	= Total Cover		OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	30	x 2 =	60	
I. Fraxinus pennsylvanica	30	Yes	FACW	FAC species	0	x 3 =	0	_
,				FACU species	110	x 4 =	440	_
				UPL species	0	x 5 =	0	_
3.	<u> </u>			Column Totals:	140	(A)	500	(B)
l								
5				Prevalenc	e Index = B/A =	3.57		
5				Hydrophytic Ve	getation Indica	tors:		
7					est for Hydrophy		ation	
					nce Test is >50%			
erb Stratum (Plot size: 5 ft.)	30	= Total Cover			nce Index is ≤3.0 logical Adaptatio		ido supportin	~
·					Remarks or on a			y
Rubus allegheniensis	10	Yes	FACU					
•				Problemation	C Hydrophytic Ve	egetation	(Explain)	
				¹ Indicators of hy	dric soil and wet	land hydi	ology must	
i.				be present, unles	ss disturbed or p	roblemat	ic.	
5.				Definitions of V	egetation Strat	a:		
				Tree – Woody pl	_		e in diameter	
5				at breast height	•	•		
·						_		
o				Sapling/shrub - and greater than				
)					•			
10.				Herb – All herba size, and woody				DΓ
1					•			
12.				Woody vines – height.	All woody vines	greater th	an 3.28 ft in	
	10	= Total Cover						
loody Vine Chrotum (Diet size, 20 ft)		- 10101 00101						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
				Vegetation				
i				Present?	Yes _	N	。 <u>X</u>	
ı								
	0	= Total Cove	er					

SOIL Sampling Point: DP-004 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 60 10YR 4/3 30 MS Silt Loam 10YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soil observed

Project/Site:	South Ripley Sc	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua		Sampling Date:	Jul 30, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				s	State: NY	Sampling Point:	DP-005	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town	n of Ripley	_		
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	2
, ,					·	-		<u> </u>	Datum: N	
Subregion (LRR or		LRR R		Lat: 42.198601	<u>N</u> .	Long: <u>19.14</u>	-			AD03
Soil Map Unit Name		silt loam; 3 to 8 perc					NWI classif		oed	
•	-	n the site typical for	-			0	(If no, explain in I	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	l? A	re "Normal C	Circumstances" p	resent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	nat	turally problematic?	? (If	f needed, ex	kplain any answer	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	location	s, transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No)	Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	x No		ļ
Wetland Hydrolog		Yes _	x No		If yes, optiona	al Wetland Si	ite ID: WL	-002		
HYDROLOGY										
							Secondary I	adicators (minimum	of two require	<u>~d\</u>
Wetland Hydrolo		- 's required check	-II that apply	Α				ndicators (minimum	Of two require	3 0)
Surface Wat	•	e is required; check		/) r-Stained Leaves (E	D0)		_	oil Cracks (B6) Patterns (B10)		
High Water				tic Fauna (B13)	D9)		_	Lines (B16)		
Saturation (A				Deposits (B15)				on Water Table (C2)	.	
Water Marks	•			ogen Sulfide Odor ((C1)			surrows (C8)	,	
Sediment De				zed Rhizospheres		s (C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposit	. , ,			ence of Reduced Iro	_	()		Stressed Plants (D		
Algal Mat or				nt Iron Reduction ir	, ,	(6)		nic Position (D2)	,	
Iron Deposits	ıs (B5)		Thin !	Muck Surface (C7)			_	quitard (D3)		
Inundation V	Visible on Aerial Im	nagery (B7)	Other	r (Explain in Remar	rks)		Microtopo	graphic Relief (D4)		
Sparsely Ver	egetated Concave	Surface (B8)					x FAC-Neuti	ral Test (D5)		
Field Observatio	ons:									
Surface Water Pro	esent?	Yes No _		th (inches):				_		
Water Table Pres	sent?	Yes No _		th (inches):		Wetland	Hydrology Pres	ent? Yes 🗡	K No_	
Saturation Preser		Yes No _	x Dept	th (inches):						
(includes capillary	· · ·	gauge, monitoring we	all corial pho	stan provious inen	actions) if avails	ablar				
Describe Records	30 Data (Stream y	auge, monitoring we	ali, aenai piio	itos, previous irispe	Clions), 11 avand	abie:				
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
Acer saccharum	70	Yes	FACU	Number of Domi That Are OBL, F.		2 (A
Fraxinus pennsylvanica	20	YES	FACW		, , , , , , , , , , , , , , , , , , , ,	
^				Total Number of Species Across		3 (B
3				Opecies Acioss i	All Ottata.	(D
4				Percent of Domin		66 (A
5				That Are OBL, 1	AOW, OITAO.	(A
6				Prevalence Inde	ex worksheet:	
7				Total % Co		Multiply by:
	90	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	50	x 2 = 100
1. Fraxinus pennsylvanica	30	Yes	FACW	FAC species	0	x 3 = 0
2.				FACU species	70	x 4 = <u>280</u>
				UPL species	0	x 5 = 0
3				Column Totals:	120	(A) <u>380</u> (
1. <u> </u>				5 .	- II 5''	2.0
5.				Prevalenc	e Index = B/A =	3.∠
5.				Hydrophytic Ve	_	
7.				l ——	est for Hydrophy	
	00	Total Cavar		X 2 - Dominar	nce Test is >50% nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)	30	= Total Cover				ons ¹ (Provide supporting
,						a separate sheet)
l·				5		1
2						egetation ¹ (Explain)
3.						tland hydrology must
4				be present, unles	ss disturbed or p	oroblematic.
5.				Definitions of V	egetation Strat	a:
6				Tree – Woody pl	lants 3 in. (7.6 ci	m) or more in diameter
7				at breast height	(DBH), regardles	ss of height.
0				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
o				and greater than		
9.				Herb – All herba	ceous (non-woo	ody) plants, regardless of
10				size, and woody		
11				Woody vines –	All woody vines	greater than 3.28 ft in
12				height.	, , , , , , , , , , , , , , , , , , , ,	3
		= Total Cover		-		
oody Vine Stratum (Plot size: 30 ft.)						
				Hydrophytic		
2.				Vegetation		X
3				Present?	Yes _	X No
4						
	0	= Total Cove	r			

SOIL Sampling Point: DP-005

Profile Descri	ption: (Describe to the	depth neede	d to document the	indicator or	confirm t	he absence	of indicators.)		ouriping rom	n. Di 000
Depth	Matrix			x Features	- _ 1	. 2				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12	10YR 2/1	70	7.5 YR 4/6	30	C	MS	Clay Loam			
12-20	10YR 4/1	60	10YR 5/8	20	C	MS	Clay Loam			
20-			7.5 YR 5/8	20	С	MS	Clay Loam			
								-		
-										
-	-									
-										
								-		
¹ Type: C=Con	centration, D=Depletion,	RM=Reduced	d Matrix, MS=Maske	d Sand Grai	ins.		² Location:	PL=Pore Lining,	M=Matrix.	
Hydric Soil In	dicators:							or Problematic H	•	
Histosol (_	Polyvalue Below MLRA 149B)	Surface (S8	i) (LRR R,			uck (A10) (LRR I		
Black His	pedon (A2) tic (A3)		Thin Dark Surface	ce (S9) (LRR	R, MLRA	149B)		rairie Redox (A1 ucky Peat or Pea		•
	Sulfide (A4)	_	Loamy Mucky M	ineral (F1) (_RR K, L)			ırface (S7) (LRR		
	Layers (A5) Below Dark Surface (A1	1) -	Loamy Gleyed N					ue Below Surface		, L)
	k Surface (A12)	1) <u>></u>						rk Surface (S9) (nganese Masses	•	۲, L, R)
	ucky Mineral (S1)	_	Depleted Dark S					nt Floodplain Soi		
	eyed Matrix (S4)	_	Redox Depression	ons (F8)				podic (TA6) (ML		i, 149B)
Sandy Re	Matrix (S6)							rent Material (F2 [.] allow Dark Surfa		
	ace (S7) (LRR R, MLRA	149B)						Explain in Remar		
3										
	nydrophytic vegetation an eyer (if observed):	nd wetland hy	drology must be pre	sent, unless	disturbed o	or problemat	ic.			
Type:	None None		_							
Depth (incl	nes):		_				Hydric Soil Pr	resent? Yes	X	No
Remarks:										

Project/Site:	South Ripley Sc	olar and Storage Pro	oject	City/Count	ity: Chauta	auqua		Sampling Date:	Jul 30, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				Sta	ate: NY	Sampling Point:	DP-006	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town	of Ripley	_		
Landform (hillslope,		Drainageway			(concave, conv		Concave		Slope (%):	2
	·					·		<u> </u>	Datum: N	
Subregion (LRR or I		LRR L		_ Lat: <u>42.198893°</u>	<u>′N</u> L	_ong: <u>/9./48</u>	-			AD03
Soil Map Unit Name		silt loam; 3 to 8 perc	•				NWI classit		ed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	ar? Yes	<u>x</u> No	o (li	If no, explain in	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed?	? A	re "Normal Ci	ircumstances" p	resent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(If	i needed, expl	lain any answer	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations	, transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolog		Yes _	x No		If yes, optiona	ıl Wetland Site	e ID: WL	-003		
HYDROLOGY										
	1 1110-0						Oadamy I	" / /inimum	C mude	n.
Wetland Hydrolo						-		ndicators (minimum	of two require	∌d)
		e is required; check						oil Cracks (B6)		
Surface Water T				-Stained Leaves (B	39)	-		Patterns (B10)		
High Water T				ic Fauna (B13)		•		Lines (B16)		
Saturation (A Water Marks	•			Deposits (B15) gen Sulfide Odor (C	(04)	•		on Water Table (C2)	1	
Water Marks Sediment De				gen Sulfide Odor (0 ed Rhizospheres o	-	(02)		urrows (C8) Visible on Aerial Im	(CQ)	
Sediment De Drift Deposits				ea Knizospneres once of Reduced Iro	•	(63)		Visible on Aerial Im Stressed Plants (D		
Algal Mat or				nt Iron Reduction in		6)		nic Position (D2)	')	
Iron Deposits				//uck Surface (C7)	111100 00110 (2)	·		quitard (D3)		
l ——	/isible on Aerial Im	nagery (B7)		(Explain in Remark	ks)	•		graphic Relief (D4)		
l —	getated Concave				-,		x FAC-Neut			
Field Observation		-						-		
Surface Water Pre		Yes No _	x Depth	n (inches):						
Water Table Prese	ent?	Yes No	x _ Depth	h (inches):		Wetland H	Hydrology Pres	ent? Yes	K No _	
Saturation Presen	nt?	Yes No								
(includes capillary										
Describe Recorde	ed Data (stream g	gauge, monitoring we	ell, aerial phot	os, previous inspe	ctions), if availa	able:				
Remarks:										
Nemans.										

				Sampling Point: DP-0	
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4	(A)
2.					(/ //
3				Total Number of Dominant Species Across All Strata: 4	(B)
·					(5)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
5					
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	10	= Total Cover		OBL species <u>75</u> x 1 = <u>75</u>	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{70}{}$ x 2 = $\frac{140}{}$	
1				FAC species <u>0</u> x 3 = <u>0</u>	
2.				FACU species 0 x 4 = 0	
3.				UPL species 0 x 5 = 0	— _
4.				Column Totals: <u>145</u> (A) <u>215</u>	(B)
_				Prevalence Index = B/A = 1.48	
b					
6				Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation	
7				X 2 - Dominance Test is >50%	
	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹	
erb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide support	ing
1. Scirpus atrovirens	30	Yes	OBL	data in Remarks or on a separate sheet)	
2. Eupatorium perfoliatum	40	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Carex gynandra	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must	
4. Onoclea sensibilis	20	No	FACW	be present, unless disturbed or problematic.	
5. Juncus pylaei	15	No	OBL	Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm) or more in diamete	ar.
6.				at breast height (DBH), regardless of height.	21
/				Sanling/shrub Woody plants loss than 2 in DRH	
···				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardles:	of.
10				size, and woody plants less than 3.28 ft tall.	5 01
11				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
	135	= Total Cover			
/oody Vine Stratum (Plot size: 30 ft.)					
1.					
				Hydrophytic	
2				Vegetation	
3.				Present? Yes X No	•
4					
	0	= Total Cove	r		

SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
| Depth | Matrix | Redox Features |

1-14 10YR 2/1 85 7.5YR 5/8 15 C MS Clay Loam	Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	Features %	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyalus Below Surface (S8) (LRR R, Histosol (A1) Polyalus Below Surface (S8) (LRR R, Cast Prairie Redux (A16) (LRR K, L, R) Black Histic Epipedon (A2) MLRA 149B) Coast Prairie Redux (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR R, L) Dark Surface (S9) (LRR K, L) Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyalus Below Surface (S9) (LRR K, L) Thin Dark Surface (F9) (LRR K, L) Thin Dark Surface (T9) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S9) Red Parent Material (F21) Very Shallow Dark Surface (F12) Other (Explain in Remarks)	0-14	10YR 2/1	85	7.5YR 5/8	15	C	MS	Clay Loam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyalus Below Surface (S8) (LRR R, Histosol (A1) Polyalus Below Surface (S8) (LRR R, Cast Prairie Redux (A16) (LRR K, L, R) Black Histic Epipedon (A2) MLRA 149B) Coast Prairie Redux (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR R, L) Dark Surface (S9) (LRR K, L) Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyalus Below Surface (S9) (LRR K, L) Thin Dark Surface (F9) (LRR K, L) Thin Dark Surface (T9) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S9) Red Parent Material (F21) Very Shallow Dark Surface (F12) Other (Explain in Remarks)	14-20	10YR 5/1	60	10YR 4/6	20	С	MS	Clav Loam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Pydric Soil Indicators:** Histosol (A1)									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hodicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S7) (LRR K, L, M) Thick Dark Surface (A11) X Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) And Surface (S7) (LRR R, MLRA 149B)	20-			7.511(5/6			IVIO	Clay Loani	-
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hodicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S7) (LRR K, L, M) Thick Dark Surface (A11) X Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) And Surface (S7) (LRR R, MLRA 149B)	-								-
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hodicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S7) (LRR K, L, M) Thick Dark Surface (A11) X Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) And Surface (S7) (LRR R, MLRA 149B)									_
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) A Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hodicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) A Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	-								
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Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) A Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hodicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) A Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	1- 0.0							21	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		·	RIM=Reduced	Matrix, MS=Masked	Sand Grai	ns.			
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Note Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Note Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Note Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	-			Polyvalue Below S	Surface (S8) (LRR R,			
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				•					
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			_	_			149B)		
Depleted Below Dark Surface (A11)			_			.KK K, L)			
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surforce of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Thick Darl	k Surface (A12)	X	Redox Dark Surfa	ce (F6)			Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			_						
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Urey Shallow Dark Surface (TF12) Other (Explain in Remarks) Undicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			_	_ Redox Depression	ns (F8)				
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
			149B)						
Restrictive Layer (if observed):			d wetland hyd	drology must be pres	ent, unless	disturbed o	r problemation	C.	
Type: None Depth (inches): Hydric Soil Present? Yes X No				_				Hydric Soil D	resent? Vas X No
				_ ,				Tiyunc 30ii Ti	NO
!emarks:	Remarks:								

Project/Site:	South Ripley Sol	lar and Storage Proje	ect	City/Count	ty: Chautai	uqua		Sampling Date:	Jul 30, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				Sta	ate: NY	Sampling Point:	DP-008	
Investigator(s):	James Ireland			Section, To	wnship, Range:	: Town	of Ripley	_		
Landform (hillslope,		Floodplain			(concave, conv		Concave	-	Slope (%):	2
	•					·		<u> </u>	Datum: N	
Subregion (LRR or		LRR R		_Lat: <u>42.199992°</u> l	<u>N</u> ∟	_ong: <u>79.748</u>	-			ADGS
Soil Map Unit Name		annery silt loam; 0 to					NWI classif		oed	
Are climatic / hydrol	ogic conditions on	the site typical for th	his time of yea	ar? Yes	<u>x</u> No) (l	If no, explain in I	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	licantly disturbed?	' Ar	re "Normal Ci	ircumstances" p	resent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	(If	needed, expl	olain any answer	s in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach s	site map s	howing sam	pling point	locations	, transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optional	l Wetland Site	e ID: WL	-004		
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary I	ndicators (minimum	of two require	ed)
		is required; check a	that annly)			•		oil Cracks (B6)	Or two require	<i>3</i> 0)
Surface Wat	•	is required, check a		Stained Leaves (B	20)			Patterns (B10)		
High Water				stained Leaves (B Fauna (B13)	9)	•		Lines (B16)		
Saturation (A			-	eposits (B15)		•		on Water Table (C2)	1	
Water Marks	•			en Sulfide Odor (C	C1)	•		urrows (C8)		
Sediment De				ed Rhizospheres o		(C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposit				ce of Reduced Iron	_	•		Stressed Plants (D		
Algal Mat or	Crust (B4)		Recent	Iron Reduction in	Tilled Soils (C6	6)	x Geomorph	ic Position (D2)		
Iron Deposits	s (B5)		Thin Mu	uck Surface (C7)			Shallow A	quitard (D3)		
	isible on Aerial Im		Other (F	Explain in Remark	(s)			graphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					x FAC-Neuti	al Test (D5)		
Field Observatio	ns:									
Surface Water Pro		Yes No		(inches):	1			,		
Water Table Pres		Yes No		(inches):	1	Wetland H	Hydrology Pres	ent? Yes	<u> </u>	
Saturation Preser		Yes No	x Depth	(inches):	1					
(includes capillary		auge, monitoring well	II aerial photo	o previous inspe	ctions) if availa	hla.				
Describe Notice	d Data (Silcuin go	luge, monitoring won	I, actiai prioto	S, pievious mopoc	2110113), 11 avana	ibie.				
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
I. Acer rubrum	30	Yes	FAC	Number of Domi That Are OBL, F.		4 (/
2.	' '			That Are OBE, 1	7.077, 01 1 7.0.	 (/
3.				Total Number of Species Across		4 (E
4				Percent of Domin		100 (/
5				,		
6				Prevalence Inde		
7				Total % Co	ver of:	Multiply by:
	30	= Total Cover		OBL species		x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species		x 2 = 150
Cornus amomum	75	Yes	FACW	FAC species	85	
2				FACU species UPL species	0	
k				Column Totals:	160	x = 0 (A) 405
4.				Column 10tals:	100	(A) <u>405</u>
5.				Prevalenc	e Index = B/A =	2.53
6				Hydrophytic Ve	getation Indica	tors:
					est for Hydrophy	
				X 2 - Domina	nce Test is >50%	%
	75	= Total Cover		X 3 - Prevaler		
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting a separate sheet)
Solidago rugosa	15	Yes	FAC			
2.				Problemation	C Hydrophytic Ve	egetation ¹ (Explain)
3.				¹ Indicators of hy	dric soil and wet	land hydrology must
1. <u> </u>				be present, unles	ss disturbed or p	problematic.
5				Definitions of V	egetation Strat	a:
6.				Tree – Woody pl	lants 3 in. (7.6 ci	m) or more in diameter
7				at breast height	(DBH), regardles	ss of height.
3.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
				and greater than		
				Herb – All herba	ceous (non-woo	dy) plants, regardless of
10.				size, and woody		
11					All woody vines	greater than 3.28 ft in
12				height.		
	15	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
. Vitis riparia	40	Yes	FAC			
2.				Hydrophytic Vegetation		
				Present?	Yes _	X No
4.						_
	40	= Total Cove	r			
	40	= Total Cove				

SOIL Sampling Point: DP-008 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 0-20 10YR 2/1 70 7.5YR 5/8 30 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes Χ Depth (inches): No Remarks:

Subregion (LRR or MLRA): LRR Lat: 42.199985'N Long: 79.748650"W Deturn: NADB Soil Map Unit Name: BsB- Busti silt loam, 3 to 8 percent slopes	Investigator(s): James Ireland Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): Subregion (LRR or MLRA): LRR R Lat: 42.199985°N Long: 79.748650°W Datum: N Soil Map Unit Name: BsB- Busti silt loam, 3 to 8 percent slopes NWI classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland?	
Landform (hilslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 3 Subregion (LRR or MLRA): LRR Lat: 42.199985*N Long: 79.748650*W Datum: NADB Soll Map Unit Name: BBB- Busti silt loam, 3 to 8 percent slopes NVII classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances present? Yes X No Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X is the Samplad Area within a Wetland? Yes No X if yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Uplaind datapoint for Wetland 004. On hillslope near Wetland 004 and stream 001. Located in deciduous forested area HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (BB) Drislage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Tim Lines (B16) Surface Water (A1) Water-Stained Leaves (B9) Drislage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Dry-Season Water Table (C2) Drift Deposits (B3) Presence of Reduced fron (C4) Saluration (Nishle on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced fron (C4) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtoppathic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Fall data deviations: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X	Landform (hillslope, terrace, etc.): Hillslope	\D83
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 3 Subregion (LRR or MLRA): LRR Lat	Landform (hillslope, terrace, etc.): Hillslope	\D83
Subregion (LRR or MLRA): LRR Lat: 42.199986'N Long: 79.748650"W Deturn: NADB Soil Map Unit Name: BsB- Busti silt loam, 3 to 8 percent slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Subregion (LRR or MLRA): LRR R Lat: 42.199985°N Long: 79.748650°W Datum: N Soil Map Unit Name: BsB- Busti silt loam, 3 to 8 percent slopes NWI classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland?	\D83
Soll Map Unit Name: Selb	Soil Map Unit Name: BsB- Busti silt loam, 3 to 8 percent slopes NWI classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation	Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes No	
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	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? Yes No X	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Within a Wetland? Yes No X Wetland Hydrology Present? Yes No X Wetland Site ID: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Mart 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) Sturted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No x	
Hydrophytic Vegetation Present? Hydror Soil Present? Wetland Hydrology Present? Upland datapoint for Wetland 004. On hillslope near Wetland 004 and stream 001. Located in deciduous forested area HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Adar Deposits (B15) Dry-Season Water Table (C2) Sediment Deposits (B2) Dry-Season Water Table (C2) Dritt Deposits (B3) Presence of Reduced Iron (C4) Sturtado or Sturted (D3) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Dry-Season? Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Sediment Deposits (B2) Dry-Season Water Table (C2) Dritt Deposits (B3) Presence of Reduced Iron (C4) Sturtled or Stressed Plants (D1) Fleid Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Bydrology Present? Wetland O04. On hillslope near Wetland 004 and stream 001. Located in deciduous forested area Wetland O04. On hillslope near Wetland 004 and stream 001. Located in deciduous forested area Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dy-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (B7) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland? Yes No y	
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Wetland Hydrology Present? Wetland Hydrology Present? Wetland O04. On hillslope near Wetland 004 and stream 001. Located in deciduous forested area HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Surface Water (Psent)? Yes No X Bettin (Inches): Wetland Hydrology Present? Yes No X Bettin Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X	I TYUTO OUI FICOCII.: 160 A	
HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B16) Dry-Season Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (A2) Aquatic Fauna (B13) Dry-Season Water Table (C2) Third Mydogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Cher (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X	<u> </u>	
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Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)	
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Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Mo X Depth (inches): Wetland Hydrology Present? Yes No X	Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)	
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No X	Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)	
Algal Mat or Crust (B4)		
Iron Deposits (B5)	<u> </u>	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No X	1 	
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations:	<u> </u>	
Field Observations: Surface Water Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No X Water Table Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No X	<u> </u>	
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Water Table Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No X		
		Y
Saturation Fiesent? Tes ino x depth (indies).		<u>~</u>
(includes capillary fringe)	Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes No No x Depth (inches):	<u>x</u>

						ampling I		
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
I. Acer saccharum	95	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
				That Aire OBE, 1	7,077, 01 1 7,0.			_(/ (/
				Total Number of Species Across			3	(B)
3.				Openies / toross /	ui Ottata.		<u> </u>	_(D)
l				Percent of Domin That Are OBL, F.			33.3	(A/B
5				That the OBE, Th	7,011,7,0.		00.0	_(////
6.				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	M	ultiply by:	_
	95	= Total Cover		OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	10	x 2 =	20	_
. Acer saccharum	15	Yes	FACU	FAC species	0	x 3 =	0	_
				FACU species	110	-	440	_
				UPL species	0	x 5 =		_
3				Column Totals:	120	_ (A)	460	_ (B)
4				Prevalenc	e Index = B/A =	3 83		
5								
S				Hydrophytic Ve	=		ention	
, <u> </u>					est for Hydrophy nce Test is >50%		auOH	
	15	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			g
. Fraxinus pennsylvanica	10	Yes	FACW	data in f	Remarks or on a	separate	e sheet)	
2.				Problematic	: Hydrophytic Ve	egetation ¹	(Explain)	
				¹ Indicators of hy				
				be present, unles				
4				-	-			
Ď				Definitions of V	_			
5				Tree – Woody pl	•	•		
7				at breast height ((DBH), regardles	ss of heig	ht.	
3.				Sapling/shrub -				
9.				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
10.				Herb – All herba				of
11.				size, and woody	•			
12.				Woody vines – height.	All woody vines	greater th	an 3.28 ft in	
	- 40	= Total Cover		noight.				
() () () () () ()	10	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)	_							
				Hydrophytic				
				Vegetation				
				Present?	Yes _	N	。 <u>X</u>	
3.								
3.								
3. 4.								

SOIL Sampling Point: DP-009 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 4/4 80 10YR 5/8 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Project		City/Coun	nty: Chauta	auqua		Sampling Date:	Jul 30, 202	20
Applicant/Owner:	ConnectGEN, LL	LC					State: NY	Sampling Point:	DP-010	
Investigator(s):	James Ireland			Section, To	ownship, Range		Town of Ripley			
Landform (hillslope,		Hillslope			f (concave, con				Slope (%):	2
	•	LRR R		Lat: 42.199945	·				Datum: N	
Subregion (LRR or I	·	-		Lat. 42.153340	-IN	Long.	-	No. of No. No. No.		ADGG
Soil Map Unit Name		silt loam; 3 to 8 percent si						ssification: Not Mapp	pea	
·	_	n the site typical for this ti	-			o	(If no, explain	in Remarks.)		
		, or Hydrology				re "Nor	rmal Circumstances	" present? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic?	? (I	f neede	ed, explain any ansv	wers in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	map s	howing sam	pling point	locat	tions, transect	s, important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area	a			
Hydric Soil Preser		Yes	No	Х	within a Wetl			No	x	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetla	and Site ID:			_
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Seconda	ry Indicators (minimum	of two require	ed)
_		e is required; check all tha	at apply)					Soil Cracks (B6)	0	<u> </u>
Surface Water	•	10 10 40.100, 222		Stained Leaves (E	B9)			ge Patterns (B10)		
High Water T		_	_	: Fauna (B13)	20,		_	rim Lines (B16)		
Saturation (A		_	_	eposits (B15)				ason Water Table (C2))	
Water Marks	s (B1)	_	Hydrog	en Sulfide Odor ((C1)		Crayfish	h Burrows (C8)		
Sediment De	eposits (B2)	_	Oxidize	ed Rhizospheres o	on Living Roots	(C3)	Saturati	ion Visible on Aerial Im	nagery (C9)	
Drift Deposits	.s (B3)	_	Presenc	ce of Reduced Iro	on (C4)		Stunted	d or Stressed Plants (D)1)	
Algal Mat or	` ,	_	_	Iron Reduction in	,	:6)		rphic Position (D2)		
Iron Deposits		_	_	uck Surface (C7)				V Aquitard (D3)		
	/isible on Aerial Im		Other (F	Explain in Remar	·ks)			pographic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)					FAC-Ne	eutral Test (D5)		
Field Observation										
Surface Water Pre		Yes No x		,		10/04	Orași Hadralani Di		Na	Y
Water Table Prese		Yes No x		(inches):		Wei	tland Hydrology Pr	resent? Yes	No _	<u>X</u>
Saturation Presen		Yes Nox	_ Deptn	(inches):						
(includes capillary Describe Recorde		auge, monitoring well, ae	erial photo	s, previous inspe	ections), if avail	able:				
<u> </u>										
Remarks: No wetland hydrolo	oav observed									
	3)									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Prunus serotina	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
Acer saccharum		Yes	FACU	That Are OBL, I ACW, OI I AC.	2(A)
Tsuga canadensis	15	No	FACU	Total Number of Dominant Species Across All Strata:	5 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
· ·		= Total Cover			(1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 40 x	2 = 80
Fraxinus pennsylvanica	10	No	FACW	FAC species 20 x	3 = 60
Lindera benzoin	20	Yes	FACW		(4 = <u>620</u>
3.					(5 = 0
4.				Column Totals: 215 (A	A) <u>760</u> (B)
5.				Prevalence Index = B/A = 3.5	3
6.				Hydrophytic Vegetation Indicators	
7.				1 - Rapid Test for Hydrophytic	Vegetation
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	30	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹	(Provide supporting
Rubus idaeus	60	Yes	FACU	data in Remarks or on a se	
Athyrium angustum	20	Yes	FAC	Problematic Hydrophytic Veget	ation ¹ (Explain)
Impatiens capensis	10		FACW	¹ Indicators of hydric soil and wetland	
A		110	171011	be present, unless disturbed or prob	
5				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm) of	or more in diameter
7				at breast height (DBH), regardless o	
8.				Sapling/shrub – Woody plants less	than 3 in. DBH
9				and greater than or equal to 3.28 ft (
10.				Herb – All herbaceous (non-woody)	plants, regardless of
11.				size, and woody plants less than 3.2	8 ft tall.
12.				Woody vines – All woody vines great height.	ater than 3.28 ft in
	90	= Total Cover		9	
Woody Vine Stratum (Plot size: 30 ft.)		- 10101 00101			
1.					
				Hydrophytic	
2				Vegetation Present? Yes	No X
3				Present? tes	_ NO
4		T-t-l O	_		
Described (health de sheet annah an han an	0	= Total Cove	<u>r</u>		
Remarks: (Include photo numbers here or on a separate sheet.)				

Sampling Point: DP-010

SOIL Sampling Point: DP-010 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-20 20YR 4/3 85 10YR 5/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 30, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC					State: N	NY	Sampling Point:	DP-011	
Investigator(s):	James Ireland			Section, To	ownship, Range		Town of Riple	ev			
Landform (hillslope,		Hillslope			f (concave, con			nvex		Slope (%):	1
	•	LRR R		Lat: 42.199960°	•		79.753306°W			Datum: N	<u>.</u> ДДВЗ
Subregion (LRR or	·				TN .	Long.	-				ADOO
Soil Map Unit Name		a channery silt loam, 0 to						NI classifica		ed	
•	· ·	n the site typical for this ti	•			° <u> </u>	(If no, exp	cplain in Re	marks.)		
		, or Hydrology				re "Nor	rmal Circumsta	ances" pre	sent? Yes	X No	,
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	? (I	f neede	ed, explain any	/ answers i	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	map s	howing sam	pling point	locat	tions, trans	sects, ir	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area					
Hydric Soil Prese		Yes	No	x	within a Wetl			Yes	No	<u>x</u>	l
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetla	and Site ID:				
HYDROLOGY											
Wetland Hydrolo	gy Indicators:						Seco	ondary Ind	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all that	at apply)				Su	urface Soil	Cracks (B6)		
Surface Wat	ter (A1)	_	_ Water-S	Stained Leaves (E	B9)		Dra	rainage Pa	itterns (B10)		
High Water	Table (A2)	_	Aquatic	Fauna (B13)			Mo	oss Trim L	ines (B16)		
Saturation (A	•	_	_	eposits (B15)				-	Water Table (C2)	1	
Water Marks		_	_	en Sulfide Odor (rayfish Bur			
Sediment De		_	_	d Rhizospheres o	_	(C3)			isible on Aerial Im		
Drift Deposit		_	_	ce of Reduced Iro		. 2)			stressed Plants (D	1)	
Algal Mat or	, ,	_	-	Iron Reduction in	,	6)		-	Position (D2)		
Iron Deposits			_	uck Surface (C7)				hallow Aqu			
	/isible on Aerial Image getated Concave S		Otnei (=	Explain in Remarl	KS)			icrotopogra AC-Neutral	aphic Relief (D4)		
		Surface (Do)						NEutrai	Test (D5)		
Field Observatio		Yes No x	Donth ((:-ahaa):							
Surface Water Pro			_ ' '	` '	Ī	Mot	tland Hydrolo	Dracar	-10 Vas	No	X
Water Table Pres		Yes No x		(inches):		Wei	land Hydrolog	gy Piesei	nt? Yes	NO	
Saturation Preser (includes capillary		Yes Nox	_ Deptn ((inches):	Ī						
		auge, monitoring well, ae	erial photos	s. previous inspe	ections), if availa	able:					
	-		•	•	•						
Remarks:											
No wetland hydrolo	igy observeu										

1. Acar saccharum	1. Acer saccharum 85 2. Prunus serotina 20 3.		Yes	FACU	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
20	2. Prunus serotina 20 3. 4. 5. 6.				Total Number of Dominant
Total Number of Deminant Species Arrival (B)	3. 4. 5. 6.	_ _ _			
Percent of Dominant Species That Are OBL FACW, or FAC: 25 (A/B)	4. 5. 6.	_			
That Are OBL, FACW, or FAC: 25 (A/B)	6	_			
Prevalence Index worksheet: Total % Cover of: Multiply by:	6	_			·
7.		_			
105	1.				
Faculty Facu			= Total Cover		
FACU species 135	Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 60 x 2 = 120
UPL species 0	1. Fraxinus pennsylvanica 60		Yes	FACW	FAC species <u>0</u> x 3 = <u>0</u>
3.	2.				
### Accordance A					
Prevalence Index = B/A = 3.38					Column l'otals: 195 (A) 660 (B)
6.					Prevalence Index = B/A = 3.38
7.					Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: 5 ft.) 1. Potentilla simplex 2. Rubus allegheniensis 3. Prevalence Index is \$3.0¹ 4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 7. Definitions of Vegetation 1 (Explain) 8. Definitions of Vegetation Strata: Tree — Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody Vine Stratum (Plot size: 30 ft.) 1. Woody Vine Stratum (Plot size: 30 ft.) 9. Total Cover	7.				
4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 1. Potentilla simplex 2. Rubus allegheniensis 3.			Total Cavar		
1. Potentilla simplex 20 Yes FACU 22. Rubus allegheniensis 3.	Herb Stratum (Plot size: 5 ft.)		= Total Cover		
2. Rubus allegheniensis 10 Yes FACU Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 5. Definitions of Vegetation Strata: Tree — Woody plants 3 in. (7,6 cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3,28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3,28 ft in height. Woody Vine Stratum (Plot size: 30 ft.) 1. Woody Vine Stratum (Plot size: 30 ft.) 1. Hydrophytic Vegetation Present? Yes No X	, , , , , , , , , , , , , , , , , , ,		Yes	FACU	
1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 ft.) 1					Problematic Hydrophytic Vegetation ¹ (Explain)
be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Woody Vine Stratum (Plot size: 30 ft.) Hydrophytic Vegetation Present? Yes NoX					
Definitions of Vegetation Strata:					1
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Voody Vine Stratum (Plot size: 30 ft.) 1		_			Definitions of Vegetation Strata:
at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Yoody Vine Stratum (Plot size: 30 ft.) Hydrophytic Vegetation Present? Yes No X					
8.					
9. 10.	8.				Sapling/shrub – Woody plants less than 3 in. DBH
10.	9.				and greater than or equal to 3.28 ft (1 m) tall.
11	10.				
12	11.				size, and woody plants less than 3.28 ft tall.
30					
Voody Vine Stratum (Plot size: 30 ft.)			= Total Cover		- 3
1					
2.					
3					*
4	3				v
	4				11000m: 100 <u>— 110 — 110</u>
		_	- Total Cove	r	
remaile. (include prote numbers here of on a separate sheet.)			_ 10tai 00va		

Sampling Point: DP-011

SOIL Sampling Point: DP-011 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 0-20 10YR 4/4 80 10YR 5/8 10 MS Silt Loam 7.5YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	uqua			Sampling Date:	Jul 30, 202	20
Applicant/Owner:	ConnectGEN, LL	LC					State: N	IY	Sampling Point:	DP-012	
Investigator(s):	James Ireland		(Section, To	ownship, Range		Town of Riply				
Landform (hillslope,		Hillslope			f (concave, con	•				Slope (%):	2
	•	LRR R		Lat: 42.197158°	•					Datum: N	
Subregion (LRR or	·			· · · · · · · · · · · · · · · · · · ·	TN .	_Orig.	•		N. 4 M		ADGG
Soil Map Unit Name		a channery silt loam; 0 to						/I classifica		ed	
·	· ·	n the site typical for this	•			o	(If no, exp	olain in Re	marks.)		
		, or Hydrology				re "Norr	mal Circumstar	nces" pres	sent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	' (If	neede	d, explain any	answers i	n Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	e map s	howing sam	pling point	locat	tions, trans	sects, ir	nportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				<u> </u>	
Hydric Soil Prese		Yes	No	х х	within a Wetl			'es	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	ıl Wetlaı	nd Site ID:				
Оріани чатарот	t III a grass neru.	d. Along egde of tree l	lifie								
HYDROLOGY											
Wetland Hydrolo	gy Indicators:						Seco	ondary Ind	icators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all th	nat apply)				Sur	rface Soil	Cracks (B6)		l
Surface Wat	ter (A1)	_	_ Water-S	Stained Leaves (E	39)		Dra	ainage Pat	tterns (B10)		
High Water	Table (A2)	_	_ Aquatic	Fauna (B13)			Mos	ss Trim Li	ines (B16)		
Saturation (A	43)	_	_ Marl De	eposits (B15)			Dry	/-Season \	Water Table (C2)	(
Water Marks	s (B1)	_	_ Hydroge	en Sulfide Odor (C1)		Cra	ayfish Burr	ows (C8)		
Sediment De		_		d Rhizospheres o	=	(C3)			sible on Aerial Im		
Drift Deposit		_	_	ce of Reduced Iro	, ,				tressed Plants (D	1)	
Algal Mat or	, ,	_	_	Iron Reduction in	n Tilled Soils (Co	6)		-	Position (D2)		
Iron Deposits		-		uck Surface (C7)				allow Aqui			
	/isible on Aerial Ima		Other (E	Explain in Remarl	ks)				phic Relief (D4)		
	getated Concave S	Surface (B8)					FAU	.C-Neutral	Test (D5)		
Field Observatio		N. N.	5 -4								
Surface Water Pro		Yes Nox				121-4	balaa	3	· 5 V -	NI-	v
Water Table Pres		Yes Nox		(inches):		Weti	land Hydrolog	jy Presen	it? Yes	NO_	<u>X</u>
Saturation Preser		Yes Nox	Depth ((inches):							
(includes capillary Describe Recorde		auge, monitoring well, a	erial photo	s. previous inspe	ections). if availa	able:					
	,	14. 3	,	, , , , , , , , , , , , , , , , , , , ,	,,						
Remarks:											
No wetland hydrolo	ogy observed										

Indicator Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0
Number of Dominant Species
Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: O Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species O FACW species O FAC species O FAC species O FACU species O
Species Across All Strata:
Percent of Dominant Species
That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Prevalence Index worksheet:
Total % Cover of: Multiply by: OBL species 0
Total % Cover of: Multiply by: OBL species 0
FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 120 x 4 = 480 UPL species 0 x 5 = 0 Column Totals: 120 (A) 480 Prevalence Index = B/A = 4
FAC species 0 x 3 = 0 FACU species 120 x 4 = 480 UPL species 0 x 5 = 0 Column Totals: 120 (A) 480 Prevalence Index = B/A = 4
FACU species 120 x 4 = 480 UPL species 0 x 5 = 0 Column Totals: 120 (A) 480 Prevalence Index = B/A = 4
UPL species 0 x 5 = 0 Column Totals: 120 (A) 480 Prevalence Index = B/A = 4
Column Totals: 120 (A) 480 Prevalence Index = B/A = 4
Prevalence Index = B/A = 4
Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
tal Cover 3 - Prevalence Index is ≤3.0 ¹
4 - Morphological Adaptations ¹ (Provide supporting
Yes FACU data in Remarks or on a separate sheet)
No FACU Problematic Hydrophytic Vegetation ¹ (Explain)
No FACU ¹ Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Definitions of Vegetation Strate.
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.
tal Cover
Hydrophytic
Vegetation
Present? Yes NoX

SOIL Sampling Point: DP-012 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soil observed

Project/Site:	South Ripley Sol	ar and Storage Proje	:ct	City/Count	ty: Chauta	uqua		Sampling Date:	Jul 30, 202	20
Applicant/Owner:	ConnectGEN, LL	.C					State: NY	Sampling Point:	DP-013	
Investigator(s):	James Ireland			Section, To	wnship, Range:	: Tow	n of Ripley	_		
Landform (hillslope,		Hillslope			(concave, conv				Slope (%):	2
		LRR R		Lat: 42.181372°	•	•			Datum: N	
Subregion (LRR or I					N L	.011g. <u>13.0</u>		20 C NICK NACO		ADOO
Soil Map Unit Name		a channery silt loam; (sification: Not Mapp	ped	
•	· ·	the site typical for thi	•				(If no, explain in	Remarks.)		
		, or Hydrology				e "Normal	Circumstances"	present? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	(If	needed, ex	xplain any answe	ers in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach s	ite map s	howing sam	pling point	location	ıs, transects	, important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	d Area				
Hydric Soil Preser		Yes	No	х	within a Wetla		Yes _	No	x	ľ
Wetland Hydrolog		Yes	No	Х	If yes, optional	Wetland S	Site ID:			l
HYDROLOGY										
Wetland Hydrolo	an Indicators						Secondary	Indicators (minimum	of two require	<u>od)</u>
		:- remitted about at	" that apply)					·	OI IWO IEquire	<u> (0)</u>
'	•	is required; check all		Ctained Leaves (F	20)			Soil Cracks (B6)		
Surface Water T				Stained Leaves (B : Fauna (B13)	,9 <i>)</i>		_	Patterns (B10) m Lines (B16)		
Saturation (A		•		eposits (B15)				on Water Table (C2)	١	
Water Marks	•	•		en Sulfide Odor (0	C1)			Burrows (C8)	,	
Sediment De		•		ed Rhizospheres o	•	(C3)		n Visible on Aerial Im	nagery (C9)	
Drift Deposits	. , ,	•	_	ce of Reduced Iro	=	(~-)		or Stressed Plants (D		
Algal Mat or	Crust (B4)	-	Recent	Iron Reduction in	Tilled Soils (C6	3)	Geomorp	hic Position (D2)	•	
Iron Deposits	s (B5)		Thin Mu	uck Surface (C7)			Shallow A	Aquitard (D3)		
	isible on Aerial Ima		Other (F	Explain in Remark	ks)			ographic Relief (D4)		
Sparsely Vec	getated Concave S	Surface (B8)					FAC-Neu	itral Test (D5)		
Field Observation	ns:									
Surface Water Pre		Yes No	 '	(inches):						
Water Table Prese		Yes No		(inches):		Wetland	d Hydrology Pre	sent? Yes	No _	<u>X</u>
Saturation Presen		Yes No	x Depth	(inches):						
(includes capillary	<u> </u>	····a manitaring wall	acticl photo	ious inens		-la.				
Describe Recorde	10 Data (Stream ya	auge, monitoring well,	, аепагрпою	s, previous irisper	CTIONS), 11 avana	Die.				
Remarks:	av observed									

							Point: DP-01	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
1. Acer saccharum	30	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
2. Rhus typhina	60	Yes	UPL					_` ′
3.				Total Number of Species Across			6	(B)
								_` ^
.				Percent of Domin			16.6	(A/E
5								
S				Prevalence Inde				
7		T 0		Total % Co			lultiply by:	_
	90	= Total Cover		OBL species	0	•		
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	<u>0</u> 20	='		
. Lonicera morrowii	40	Yes	FACU	FACU species	90	•		_
. Rhus typhina	15	Yes	UPL	UPL species	75	x 5 =		_
B				Column Totals:	185	(A)	795	— (B
l						_		_ `
5				Prevalenc	e Index = B/A =	4.29		
5				Hydrophytic Ve	getation Indica	tors:		
					est for Hydrophy		tation	
					nce Test is >50%			
oh Otenture (Diet siene 5 ft.)	55	= Total Cover		l ——	nce Index is ≤3.0		vida avanantin	. ~
rb Stratum (Plot size: 5 ft.)					logical Adaptatio Remarks or on a			ıg
. Rubus idaeus	20	Yes	FACU					
·				Problemation				
				¹ Indicators of hy				
•				be present, unles	ss disturbed or p	roblema	tic.	
i.				Definitions of V	egetation Strat	a:		
3				Tree – Woody pl	lants 3 in. (7.6 cr	m) or mo	re in diameter	
				at breast height	(DBH), regardles	s of hei	ght.	
				Sapling/shrub -	- Woody plants le	ess than	3 in. DBH	
				and greater than	or equal to 3.28	ft (1 m)	tall.	
				Herb – All herba	iceous (non-woo	dy) plan	ts, regardless	of
0				size, and woody				
1				Woody vines –	All woody vines	greater t	han 3.28 ft in	
2				height.				
	20	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
Vitis riparia	20	Yes	FAC					
				Hydrophytic				
				Vegetation Present?	Yes _	•	lo X	
1					.00 _			
•								
	20	= Total Cove	r	<u> </u>				

SOIL Sampling Point: DP-013 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 4/4 85 10YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 31, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC					State:	NY	Sampling Point:	DP-014	
Investigator(s):	James Ireland			Section, To	ownship, Range	e:	Town of Ri	iplev	•		
Landform (hillslope,		Hillslope			f (concave, con	·		Convex	,	Slope (%):	3
	•	LRR R	-	Lat: 42.198658°	,		· -			Datum: N	
Subregion (LRR or	·			' <u>-</u>	-IN	Long.					ADOO
Soil Map Unit Name		a channery silt loam; 0 to						NWI classifi		ed	
•	-	n the site typical for this ti	-			lo	(If no,	, explain in R	temarks.)		
		, or Hydrology				∖re "Nori	mal Circum	nstances" pr	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	? (1	f neede	d, explain a	any answers	s in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	map sl	howing sam	pling point	locat	tions, tra	ansects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	<u>—</u> а	<u> </u>		<u> </u>	
Hydric Soil Prese		Yes	No No	Х	within a Wet		-	Yes	No	x	l
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetla	and Site ID:	:			
HYDROLOGY											
Wetland Hydrolo								-	ndicators (minimum	of two require	ed)
-		e is required; check all that							il Cracks (B6)		
Surface Wat		_	-	Stained Leaves (E	39)			=	atterns (B10)		
High Water		_	•	Fauna (B13)					Lines (B16)		
Saturation (A	•	_	•	posits (B15)			_	-	n Water Table (C2)	!	
Water Marks		_	•	en Sulfide Odor (_	Crayfish Bu			
Sediment De		_	-	d Rhizospheres o	=	; (C3)			Visible on Aerial Im		
Drift Deposit		_	-	ce of Reduced Iro		• • •			Stressed Plants (D	1)	
Algal Mat or	, ,	_	-	Iron Reduction in	,	;6)		-	c Position (D2)		
Iron Deposits			_	ick Surface (C7)				Shallow Aq			
	/isible on Aerial Image getated Concave S		, Otner (⊏	Explain in Remarl	KS)			Microtopog FAC-Neutra	raphic Relief (D4)		
		Surface (Do)						FAC-INEUII	JI Test (D5)		
Field Observatio		Yes No x	Donth ((:-ahaa):							
Surface Water Pro			_ ' '	` '		Wot	··	-lasy Bross		No	X
Water Table Pres		Yes No x		(inches):		Wen	Лапи пуин	ology Prese	ent? Yes	NO	
Saturation Preser (includes capillary		Yes Nox	_ Deptn (inches):							
		auge, monitoring well, ae	rial photos	s, previous inspe	ections), if avail	able:					
	•		•		,,						
Remarks:								_			
No wetland hydrolo	igy observeu										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer saccharum	60	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				That Are OBL, I ACW, OIT AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	1 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	0(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 0	x 2 = 0
1					x 3 = 0
2					x 4 = 240
3				UPL species 0 Column Totals: 60	x = 0 (A) 240 (B)
4				Column Fotals.	(N) <u>240</u> (B)
5				Prevalence Index = B/A = 4	
6.				Hydrophytic Vegetation Indicato	
7				1 - Rapid Test for Hydrophytic	c Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations	
1				data in Remarks or on a s	separate sheet)
2				Problematic Hydrophytic Veg	etation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetla	nd hydrology must
4				be present, unless disturbed or pro	oblematic.
5.				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7				at breast height (DBH), regardless	of height.
8				Sapling/shrub – Woody plants les	
9				and greater than or equal to 3.28 f	
10				Herb – All herbaceous (non-wood) size, and woody plants less than 3	,,,
11				Woody vines – All woody vines gr	
12				height.	outor triair 0.20 it in
	0	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	-				
1				l	
2				Hydrophytic Vegetation	
3				Present? Yes	NoX
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet	.)				

Sampling Point: DP-014

SOIL Sampling Point: DP-014 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 4/4 80 10YR 3/2 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric Soil observed

Project/Site:	South Ripley So	olar and Storage Project	<u>: </u>	City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 31, 20	20
Applicant/Owner:	Connectgen Ope	erating LLC					State: N	NY	Sampling Point:	DP-015	
Investigator(s):	James Ireland		· · · · · · · · · · · · · · · · · · ·	Section, To	ownship, Range	e:	Town of Riple	ev		<u> </u>	
Landform (hillslope,		Hillslope			f (concave, conv	'!		nvex	,	Slope (%):	2
	•	LRR R		Lat: 42.198592	·					Datum: N	
Subregion (LRR or	•		_	Lat. 42.180002	TN .	Long.	-		Nat Mana	_	ADOO
Soil Map Unit Name		silt loam; 3 to 8 percent s						WI classific		ped	
· ·	-	n the site typical for this	-			°		xplain in Re	•		
		, or Hydrology				re "Nori	rmal Circumsta	ances" pre	sent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	? (If	f neede	ed, explain any	y answers i	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach sit	e map s	howing sam	pling point	locat	tions, trans	sects, ir	mportant feat	tures, etc.	1
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	a				_
Hydric Soil Prese		Yes	No	Х	within a Wetl			Yes	No	<u>x</u>	ļ
Wetland Hydrolog		Yes	No		If yes, optiona	ıl Wetla	and Site ID:				
HYDROLOGY											
Wetland Hydrolo	an Indicators						Sec	condary Inc	dicators (minimum	of two requir	24)
_		s is required; check all t	hat apply)					-	•	OI IWO IEquit	eu)
Surface Wat	-	e is required; check all th		Stained Leaves (E	P0)				l Cracks (B6) atterns (B10)		
High Water		_	_	: Fauna (B13)	D9,			_	ines (B16)		
Saturation (A		_		eposits (B15)					Water Table (C2)	i	
Water Marks	•	_		en Sulfide Odor ((C1)			rayfish Bur			
Sediment De		_		d Rhizospheres		(C3)		-	isible on Aerial Im	nagery (C9)	
Drift Deposit	is (B3)	_	Presenc	ce of Reduced Iro	on (C4)		St	tunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	6)	Ge	eomorphic	Position (D2)		
Iron Deposits	s (B5)	_	_ Thin Mu	uck Surface (C7)			Sh	hallow Aqu	ıitard (D3)		
_	/isible on Aerial Im		Other (F	Explain in Remar	rks)				aphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FA	AC-Neutral	I Test (D5)		
Field Observatio											
Surface Water Pre		Yes Nox		(inches):							
Water Table Pres		Yes Nox		(inches):		Wet	land Hydrolo	gy Preser	nt? Yes	No _	<u>X</u>
Saturation Preser		Yes Nox	Depth ((inches):							
(includes capillary		manitaring wall s	- arial photo	vious inen	+i) if avails	- 6101					
Describe Records	30 Data (Siream ya	auge, monitoring well, a	eriai priotos	s, previous irispe	Clions), 11 avand	abie.					
Remarks:											
No wetland hydrolo	gy observed										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
1. Acer saccharum	80	Yes	FACU	Number of Domin		2 (A)
2.					, 6	(,,
				Total Number of Species Across A		6 (B)
3						(B)
1				Percent of Domir That Are OBL, F		33 (A/B
5						(//05
5				Prevalence Inde	x worksheet:	
7				Total % Cov	ver of:	Multiply by:
	80	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	15	x 2 = <u>30</u>
. Crataegus crus-galli	30	Yes	FAC	FAC species	30	
2. Fraxinus pennsylvanica	10	Yes	FACW	FACU species	150	
i				UPL species	0	x 5 = 0
				Column Totals:	195	(A) <u>720</u> (B)
l				Prevalenc	e Index = B/A =	3.69
i						
i				Hydrophytic Ve	_	
					est for Hydrophy nce Test is >50%	
	40	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting
. Impatiens capensis	5	No	FACW	data in F	Remarks or on a	separate sheet)
. Rubus allegheniensis	30	Yes	FACU	Problemation	: Hydrophytic Ve	egetation ¹ (Explain)
. Rubus idaeus	25	Yes	FACU			land hydrology must
B				be present, unles		
. Plantago major		Yes	FACU	Definitions of V		
Ď.				Definitions of V	_	
)				at breast height (·	m) or more in diameter
·						_
3.				Sapling/shrub – and greater than		ess than 3 in. DBH
)					·	
0				Herb – All herba		dy) plants, regardless of
1					•	
12.				Woody vines – / height.	All woody vines	greater than 3.28 ft in
	75	= Total Cover				
and Wine Chartery (Diet sine 20.6)		- Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
-				Hydrophytic		
·				Vegetation		
				Present?	Yes _	No X
). 						
			-			
4	0	= Total Cove	1			

SOIL Sampling Point: DP-015 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/3 90 7.5YR 5/8 10 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks:

Project/Site:	South Ripley So	olar and Storage Project		City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 31, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC					State:	NY	Sampling Point:	DP-016	
Investigator(s):	James Ireland			Section, To	ownship, Range	e:	Town of Riple	lev			
Landform (hillslope,		Hillslope			f (concave, con	·!		onvex		Slope (%):	2
• • •		LRR R		Lat: 42.198317	·					Datum: N	
Subregion (LRR or I	•				-IN	Long.			" N. A.M.		ADOO
Soil Map Unit Name		ine sandy loam; strongly s						IWI classific		ed	
•	ū	n the site typical for this ti	•			lo	(If no, ex	explain in Re	emarks.)		
		, or Hydrology				∖re "Nori	rmal Circumst	tances" pre	sent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (I	f neede	ed, explain an	ny answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	map s	howing sam	pling point	locat	tions, tran	nsects, i	mportant feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	<u>——</u>				
Hydric Soil Preser		Yes	No	X	within a Wetl			Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No	Х	If yes, optiona	al Wetla	and Site ID:				
LIVEROLOGY											
HYDROLOGY	. P						0-	1	·· · / !=!==	*	1)
Wetland Hydrolo								-	dicators (minimum	of two require	ed)
		e is required; check all tha							Cracks (B6)		
Surface Water 7			-	Stained Leaves (E	39)			_	atterns (B10)		
High Water T		_		Fauna (B13)				Moss Trim L			
Saturation (A	•	_	_	eposits (B15)	(04)			-	Water Table (C2)		
Water Marks				en Sulfide Odor ((02)		Crayfish Bur		- ~~~ (CO)	
Sediment De Drift Deposits	. ,		_	ed Rhizospheres of ce of Reduced Iro	_	; (U3)			/isible on Aerial Im Stressed Plants (D		
Algal Mat or			_	Iron Reduction in		`&\			Position (D2)	1)	
Iron Deposits	• •		-	uck Surface (C7)	,	,ט,		Shallow Aqu			
	/isible on Aerial Im			Explain in Remar				-	aphic Relief (D4)		
	getated Concave		. Ошто. (-	_Apiaiii iii i	K3)			AC-Neutral			
Field Observation								7.0	1 100. (= =,		
Surface Water Pre		Yes No x	Depth	(inches):							
Water Table Prese		Yes No x		(inches):		Wet	land Hydrold	ogy Prese	nt? Yes	No	X
Saturation Presen		Yes No x						-3,			
(includes capillary						l					
		auge, monitoring well, ae	rial photo	s, previous inspe	ections), if availa	able:					
Remarks:											
No wetland hydrolo	gy observed										

						oling Point: DP-016	
Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	sheet:		
Acer saccharum	75	Yes	FACU	Number of Dominant Sp That Are OBL, FACW, of		1	(A)
2.						·	_(' ')
3				Total Number of Domina Species Across All Strat		3	(B)
					•		_(5)
4				Percent of Dominant Sp That Are OBL, FACW, of		33.3	(A/B)
5				111007110002,171017,0		00.0	_(/ (/ D)
6				Prevalence Index work	sheet:		
7				Total % Cover of:		Multiply by:	_
	75	= Total Cover		OBL species 0	x	1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 5	x	2 = 10	_
l					x	3 = 0	_
2.				· · · · · · · · · · · · · · · · · · ·		4 = 340	_
				· —		5 = 0	_
3. 4				Column Totals: 90	(A	A) <u>350</u>	_ (B)
4				Prevalence Index	= B/A = 3.89	3	
5		-					
6.		-		Hydrophytic Vegetatio			
7				1 - Rapid Test for I 2 - Dominance Tes		regetation	
	0	= Total Cover		3 - Prevalence Inde			
erb Stratum (Plot size: 5 ft.)				4 - Morphological A			9
Acer saccharum	10	Yes	FACU	data in Remark	s or on a sep	parate sheet)	
2. Fraxinus pennsylvanica	5	Yes	FACW	Problematic Hydro	phytic Vegeta	ation ¹ (Explain)	
3.				¹ Indicators of hydric soil			
				be present, unless distu			
4					-		
5				Definitions of Vegetati			
6				Tree – Woody plants 3 i	, ,		
7				at breast height (DBH),	regardless of	height.	
8				Sapling/shrub – Wood			
9.				and greater than or equ	al to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (of
11.				size, and woody plants l			
12.				Woody vines – All wood height.	dy vines grea	ter than 3.28 ft in	
12.		T-t-l O		noight.			
	15	= Total Cover					
/oody Vine Stratum (Plot size: 30 ft.)							
l				Uhadaan kasta			
2				Hydrophytic Vegetation			
3		·		=	res	NoX	
4.							
	0	= Total Cove					
		. 5.5. 5570		I			

SOIL Sampling Point: DP-016 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 10YR 4/4 80 10YR 3/2 10 MS Silt Loam 0-20 7.5YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	ar and Storage Pro	ject	City/Count	ty: Chauta	auqua		Sampling Date:	Jul 31, 202	20		
Applicant/Owner:	Connectgen Ope	rating LLC				;	State: NY	Sampling Point:	DP-017			
Investigator(s):	James Ireland			Section, To	wnship, Range	e: Tow	wn of Ripley					
Landform (hillslope,		Depression			(concave, con				Slope (%):	1		
, ,	,	LRR R		Lat: 42.199177°	,				Datum: N	4D83		
Subregion (LRR or					N .	Long. 13.1		- NI-4 Ma		ADOO		
Soil Map Unit Name		ne sandy loam; stroi						ssification: Not Mapp	ped			
Are climatic / hydrol	ū	**	ř			lo	(If no, explain	in Remarks.)				
		, or Hydrology	· ·			Are "Normal	Circumstances	" present? Yes	X No			
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(11)	If needed, ex	xplain any ansv	wers in Remarks.)				
SUMMA	ARY OF FINDI	NGS – Attach	site map s	showing sam	pling point	t location	ns, transect	s, important fea	tures, etc.			
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area						
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	No				
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland S	Site ID: (005				
HYDROLOGY												
Wetland Hydrolo	nav Indicators:						Secondar	ry Indicators (minimum	of two require	ed)		
		is required; check a	all that annly)					Soil Cracks (B6)	Or two rogans	50)		
Surface Wat	-	15 Tequired, Oricon		-Stained Leaves (B	39)			ge Patterns (B10)				
x High Water				c Fauna (B13)	13)	Moss Trim Lines (B16)						
x Saturation (A				Marl Deposits (B15) Dry-Season Water Table (C2)								
Water Marks	•			Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)								
Sediment De				ed Rhizospheres o	•	s (C3)						
Drift Deposit	:s (B3)		Presen	nce of Reduced Iro	on (C4)			or Stressed Plants (D				
Algal Mat or Crust (B4)			Recent	t Iron Reduction in	Tilled Soils (C	26)	x Geomorphic Position (D2)					
Iron Deposits	Thin M	luck Surface (C7)			Shallow Aquitard (D3)							
	isible on Aerial Ima	er (Explain in Remarks) <u>x</u> Microtopographic Relief (D4)										
Sparsely Ve	getated Concave S	3urface (B8)					x FAC-Ne	eutral Test (D5)				
Field Observatio												
Surface Water Pro		Yes No _					,					
Water Table Pres		Yes x No		n (inches): 10		Wetland	d Hydrology Pr	resent? Yes	X No _			
Saturation Preser (includes capillary		Yes x No	Depth	n (inches): 8								
<u> </u>		auge, monitoring we	ell aerial phote	os previous inspe	ctions). if availa	lable:						
	<u> </u>	uge , 5	, , , , , , , , , , , , , , , , , , ,	70, [0110112,,							
Remarks:												

	Sampling Point: DP-017					
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Test worksheet:		
	70 00101	ороско.	Clarac	Number of Dominant Species		
				That Are OBL, FACW, or FAC: 1 (
				Total Number of Dominant		
				Species Across All Strata: 1 (
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (
				Prevalence Index worksheet:		
				Total % Cover of: Multiply by:		
	0	= Total Cover		OBL species 0 x 1 = 0		
oling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 80 $x = 160$		
				FAC species 0 $x 3 = 0$ FACU species 0 $x 4 = 0$		
				UPL species $0 x = 0$		
				Column Totals: 80 (A) 160		
				25 (4) 100		
				Prevalence Index = B/A = 2		
				Hydrophytic Vegetation Indicators:		
				X 1 - Rapid Test for Hydrophytic Vegetation		
				X 2 - Dominance Test is >50%		
b Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting		
<u> </u>	_		0.01	data in Remarks or on a separate sheet)		
Eutrochium maculatum	30	No	OBL			
Verbena hastata	30	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
Epilobium hirsutum	80	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must		
Schoenoplectus tabernaemontani	30	No	OBL	be present, unless disturbed or problematic.		
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter		
				at breast height (DBH), regardless of height.		
				Sapling/shrub – Woody plants less than 3 in. DBH		
				and greater than or equal to 3.28 ft (1 m) tall.		
).				Herb – All herbaceous (non-woody) plants, regardless of		
				size, and woody plants less than 3.28 ft tall.		
•				Woody vines – All woody vines greater than 3.28 ft in		
2				height.		
	170	= Total Cover				
ody Vine Stratum (Plot size: 30 ft.)	_					
				Undeenhade		
				Hydrophytic Vegetation		
				Present? Yes <u>X</u> No		
	0	= Total Cover				
				•		

SOIL Sampling Point: DP-017

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Matrix		Redox	Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks			
0-14	10YR 2/1	60	10YR 4/6	20	С	MS	Clay Loam					
			7.5YR 5/8	20	С	MS	Clay Loam					
20	10YR 4/1	60	7.5YR 5/8	30	C	MS	Clay					
			10YR 4/6	10	С	MS	Clay					
								-				
-			_									
-												
								-				
-												
¹ Type: C=Cond	centration, D=Depletion,	RM=Reduce	ed Matrix. MS=Masked	Sand Grai	ns.		² Location:	PL=Pore Lin	ing, M=Matrix.			
Hydric Soil Inc	dicators:						Indicators f	or Problema	tic Hydric Soi	ils ³ :		
Histosol (/	A1)		Polyvalue Below S	Surface (S8) (LRR R,		2 cm Muck (A10) (LRR K, L, MLRA 149B)					
Histic Epip	pedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)					
Black Hist	tic (A3)	_	Thin Dark Surface	(S9) (LRR	R, MLRA	149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)					
Hydrogen	Sulfide (A4)	-	Loamy Mucky Min	eral (F1) (L	RR K, L)		Dark S	urface (S7) (I	RR K, L, M)			
	Layers (A5)	-	Loamy Gleyed Ma	trix (F2)			Polyval	ue Below Su	rface (S8) (LR	R K. L)		
	Below Dark Surface (A1	1)	X Depleted Matrix (F									
		-					Thin Dark Surface (S9) (LRR K, L)					
_	k Surface (A12)	-	x Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)					
Sandy Mu	ıcky Mineral (S1)	_	Depleted Dark Su	rface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)					
Sandy Gle	eyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy Re		-		, ,			Red Parent Material (F21)					
	Matrix (S6)						Very Shallow Dark Surface (TF12)					
Dark Surfa	ace (S7) (LRR R, MLRA	A 149B)					Other (Explain in Re	marks)			
3Indicators of h	nydrophytic vegetation a	nd wetland h	udrology must be pres	ent unless	disturbed o	r problemati	C					
	yer (if observed):	na wettana n	ydrology mast be pres	ent, unicss	disturbed c	probleman	0.					
Type:	Clay											
Depth (inch	·		_				Hydric Soil P	resent? Ye	s <u>X</u>	No		
Remarks:												

Project/Site:	South Ripley So	olar and Storage Project		City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 31, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC					State: N	NY	Sampling Point:	DP-018	
Investigator(s):	James Ireland			Section, To	ownship, Range	e:	Town of Riple	ev			
Landform (hillslope,		Hillslope			f (concave, con	·!		nvex		Slope (%):	2
	•	LRR R		Lat: 42.199193°	•					Datum: N	
Subregion (LRR or	•				<u>TN</u>	Long.	<u> </u>		" Nat Mone		ADOO
Soil Map Unit Name		sia channery silt loam; 0 to						WI classific		<u>sea</u>	
•	•	n the site typical for this ti	•			lo	(If no, ex	xplain in Re	emarks.)		
		, or Hydrology				∖re "Nori	rmal Circumsta	ances" pre	sent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	' (1	If neede	ed, explain any	y answers i	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	∍ map s	howing sam	pling point	t locat	tions, tran	sects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sampl	ed Area	 а				
Hydric Soil Prese		Yes	No	X	within a Wet			Yes	No	<u>x</u>	l
Wetland Hydrolog		Yes	No	Х	If yes, optiona	al Wetla	and Site ID:				
HADBOI OCA											
HYDROLOGY	· · · · · · · · · · · · · · · · · · ·						Coo		" -t /minimum	China na mula	.1\
Wetland Hydrolo								-	dicators (minimum	of two require	ed)
-	-	e is required; check all tha							Cracks (B6)		
Surface Wat		_	_	Stained Leaves (E	39)		_	_	atterns (B10)		
High Water		_	_	Fauna (B13)			_		Lines (B16)		
Saturation (A	•	_	_	eposits (B15) sen Sulfide Odor ((C1)			-	Water Table (C2)		
Water Marks		_		en Sulfide Odor (- (C3)	_	rayfish Bur		22207/(C0)	
Sediment De Drift Deposit			_	ed Rhizospheres of ce of Reduced Iro	_	i (U3)			/isible on Aerial Im Stressed Plants (D		
Algal Mat or		_	_	Iron Reduction in	` '	`6)	_		Position (D2)	')	
Iron Deposits	• •	_	_	uck Surface (C7)	111100 00110 (2	,,,		hallow Aqu			
	/isible on Aerial Im	nagery (B7)	_	Explain in Remarl	ks)				aphic Relief (D4)		
	getated Concave S		•	'	-,			AC-Neutral			
Field Observatio		· ·	-								
Surface Water Pro	esent?	Yes Nox	Depth	(inches):							
Water Table Pres	ent?	Yes Nox	Depth	(inches):		Wet	tland Hydrolo	ogy Preser	nt? Yes	No _	X
Saturation Preser	nt?	Yes No x	Depth	(inches):						_	_
(includes capillary	y fringe)										
Describe Recorde	ed Data (stream ga	auge, monitoring well, ae	erial photos	s, previous inspe	ctions), if avail	able:					
Remarks:											
No wetland hydrolo	gy observed										

							Point: DP-018	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer saccharum	95	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
				mat Ale OBL, 1	ACW, OIT AC.		<u> </u>	_(^)
2				Total Number of Species Across			4	(B)
3.				Opecies Acioss i	All Ottata.			_(D)
1				Percent of Domin			25	(A/B
5				matrico OBE, 1	7.077, 01 1 7.0.		20	_(////
5				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	N	lultiply by:	_
	95	= Total Cover		OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species			30	
I. Fraxinus pennsylvanica	15	Yes	FACW	FAC species	0	_'	0	
2. Acer saccharum	40	Yes	FACU	FACU species	165	•		
3.				UPL species	0	x 5 =		
4.				Column Totals:	180	_ (A)	690	(B)
				Prevalenc	e Index = B/A =	3.83		
5								
6. -				Hydrophytic Ve	est for Hydrophy		tation	
7				l ——	nce Test is >50%		tation	
	55	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			g
. Rubus allegheniensis	30	Yes	FACU	data in I	Remarks or on a	separat	e sheet)	
2				Problemation	Hydrophytic Ve	egetation	¹ (Explain)	
3				¹ Indicators of hy	dric soil and wet	land hyd	rology must	
				be present, unles				
4				Definitions of V	egetation Strat	a·		
o					_		en in diameter	
S				Tree – Woody pl at breast height	•	,		
/								
3				Sapling/shrub - and greater than				
9					•			
10.				Herb – All herba size, and woody				OT
11				1	•			
12				Woody vines – height.	All woody vines	greater t	nan 3.26 il in	
	30	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)		•						
				Hydrophytic				
2	 -			Vegetation			v	
3				Present?	Yes _	١	lo <u>X</u>	
4. <u> </u>								
	0	= Total Cove	r					

SOIL Sampling Point: DP-018 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 0-20 10YR 4/4 90 10YR 3/2 10 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks:

Project/Site:	South Ripley Sol	ar and Storage Projec	ot	City/Count	ty: Chauta	auqua			Sampling Date:	Jul 31, 20	20
Applicant/Owner:	Connectgen Ope	rating LLC					State:	NY	Sampling Point:	DP-019	
Investigator(s):	James Ireland			Section, To	wnship, Range	 e: 7	Town of R	Ripley	_	<u> </u>	
Landform (hillslope,		Terrace			(concave, conv	-		Convex		Slope (%):	2
		LRR R								Datum: N	
Subregion (LRR or I		-		_at: <u>42.199193°</u> l	<u>N</u> .	_0ng. <u>r</u>	19.10414		" " Nat Man		ADOO
Soil Map Unit Name		a channery silt loam; 0						NWI classif		ped	
•	ū	the site typical for this	•			°		, explain in I			
·		, or Hydrology				re "Norn	nal Circur	mstances" p	resent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natural	ly problematic?	(If	needed	d, explain	any answer	rs in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach si	ite map sh	owing sam	pling point	locati	ions, tr	ansects,	important fea	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	<u></u>				
Hydric Soil Presei		Yes	No No		within a Wetl			Yes	No	х	l
Wetland Hydrolog		Yes	No		If yes, optiona	ıl Wetlar	nd Site ID:	:			
HYDROLOGY											
	Indicators							Casandany I	liastara (minimum		اله -
Wetland Hydrolo		' ' d' shook all	·· ·b.						ndicators (minimum	or two requir	ea)
	•	is required; check all		' covee /E					oil Cracks (B6)		
Surface Water 3		-		ained Leaves (B	.9)		_	-	Patterns (B10)		
High Water 1 Saturation (A		-		Fauna (B13) posits (B15)			_		i Lines (B16) on Water Table (C2)	١	
Water Marks	•	-		n Sulfide Odor (C	C1)			=	surrows (C8)	,	
Sediment De		-		Rhizospheres of		(C3)	_	=	Visible on Aerial In	nagery (C9)	
Drift Deposits		_		of Reduced Iron	=	(,	_		Stressed Plants (D		
Algal Mat or		- -		ron Reduction in	` '	6)			nic Position (D2)	,	
Iron Deposits	s (B5)	-	Thin Muc	ck Surface (C7)			_	Shallow A	quitard (D3)		
Inundation V	/isible on Aerial Ima	agery (B7)	Other (E)	xplain in Remark	(s)		_	Microtopo	graphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					_	FAC-Neutr	ral Test (D5)		
Field Observatio	ns:										
Surface Water Pre		Yes No	. ,	nches):							
Water Table Prese		Yes No		•		Wetla	and Hydr	rology Pres	ent? Yes	No _	X
Saturation Presen		Yes No	x Depth (in	nches):							
(includes capillary		auge, monitoring well,	carial photos	provious inene	otions) if avails	abla:					
Describe Necorde	10 Data (Stream ya	uge, monitoring wen,	aeriai priotos,	previous irispec	Stions), 11 avanc	ibie.					
Remarks:	-										

1	Total Cover Yes Yes	FACU FACU UPL	Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 1 × 1 = 0 FACW species FAC species 1 × 2 = 0 FACU species 1 × 3 = 0 FACU species 1 10 1 × 4 = 440 UPL species 1 × 5 = 175 Column Totals: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
2. 3. 4. 5. 6. 7. 0 = To Sapling/Shrub Stratum (Plot size: 15 ft.) 1. 2. 3. 4. 5. 6. 7. 0 = To Herb Stratum (Plot size: 5 ft.) 1. Phleum pratense 2. Dactylis glomerata 3. Asclepias syriaca 4. Daucus carota 10	Total Cover Yes Yes No	FACU	Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FACU species 110 x4 = 440 UPL species 15 (A) 615 (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3.	Total Cover Yes Yes No	FACU	Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 35 x 5 = 175 Column Totals: 145 (A) 615 Multiply by: Column Totals: 0 1 - Rapid Test for Hydrophytic Vegetation (B) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain)
4	Total Cover Yes Yes No	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: O
6	Total Cover Yes Yes No	FACU	That Are OBL, FACW, or FAC: O
6	Total Cover Yes Yes No	FACU	Total % Cover of: Multiply by: OBL species 0
7	Total Cover Yes Yes No	FACU	Total % Cover of: Multiply by: OBL species 0
0	Total Cover Yes Yes No	FACU	OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 110 x4 = 440 UPL species 35 x5 = 175 Column Totals: 145 (A) 615 (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain)
Sapling/Shrub Stratum (Plot size: 15 ft.)	Total Cover Yes Yes No	FACU	FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 35 x 5 = 175 Column Totals: 145 (A) 615 (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
1	Total Cover Yes Yes No	FACU	FAC species 0 x 3 = 0 FACU species 110 x 4 = 440 UPL species 35 x 5 = 175 Column Totals: 145 (A) 615 (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
2. 3. 4. 5. 6. 7. 0 = T Herb Stratum (Plot size: 5 ft.) 1. Phleum pratense 60 2. Dactylis glomerata 30 3. Asclepias syriaca 25 4. Daucus carota 10	Total Cover Yes Yes No	FACU	FACU species $\frac{110}{35}$ $x 4 = \frac{440}{175}$ UPL species $\frac{35}{145}$ $x 5 = \frac{175}{175}$ Column Totals: $\frac{145}{145}$ $x 5 = \frac{175}{145}$ (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
3.	Yes Yes No	FACU	Column Totals: 145 (A) 615 (B) Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
4	Yes Yes No	FACU	Prevalence Index = B/A = 4.24 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
5	Yes Yes No	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
6	Yes Yes No	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
7	Yes Yes No	FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
0	Yes Yes No	FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 5 ft.)	Yes Yes No	FACU	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
1. Phleum pratense 60 2. Dactylis glomerata 30 3. Asclepias syriaca 25 4. Daucus carota 10	Yes No	FACU	data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dactylis glomerata 30 3. Asclepias syriaca 25 4. Daucus carota 10	Yes No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Asclepias syriaca 25 4. Daucus carota 10	No		
4. Daucus carota 10		UPL	¹ Indicators of hydric soil and wetland hydrology must
5 TYP	No		maioatore of rigarie con and metalla rigariergy mast
5. Trifolium repens 20		UPL	be present, unless disturbed or problematic.
	No	FACU	Definitions of Vegetation Strata:
6.			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8.			Sapling/shrub – Woody plants less than 3 in. DBH
9.			and greater than or equal to 3.28 ft (1 m) tall.
10.			Herb - All herbaceous (non-woody) plants, regardless of
11.			size, and woody plants less than 3.28 ft tall.
12.	-		Woody vines – All woody vines greater than 3.28 ft in height.
	Total Cover		Tiolgris.
	Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)			
1			Hydrophytic
2			Vegetation
3			Present? Yes NoX
4			
0 =	Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)			

SOIL Sampling Point: DP-019 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage F	roject		City/Coun	ty: Chautaud	qua		Sampling Date:	Jul 31, 2020
Applicant/Owner:	Connectgen Op	erating LLC					State	e: NY	Sampling Point:	DP-020
Investigator(s):	James Ireland				Section, To	ownship, Range:	Town of	f Ripley		
Landform (hillslope,	, terrace, etc.):	Drainageway			Local relief	(concave, convex	x, none):	Concave	;	Slope (%): 2
Subregion (LRR or	MLRA):	LRR R			Lat: 42.188895°	°N Lo	ng: <u>79.7485</u>	558°W		Datum: NAD83
Soil Map Unit Name	e: As - Ashville	e silt loam			-			NWI classif	ication: Not Mapp	ped
Are climatic / hydrol	ologic conditions o	n the site typical f	or this tir	me of ve	ar? Yes	x No	(If r	 no, explain in I	Remarks.)	
-	=	, or Hydrology		-			,	cumstances" p		x No
								·		
		, or Hydrology					•	-	s in Remarks.) important feat	ures, etc.
Hydrophytic Vege	etation Present?	Yes	х	No		Is the Sampled	Area			
Hydric Soil Prese		Yes	x	— No		within a Wetlan		Yes	<u>x</u> No	
Wetland Hydrolog		Yes	x	No		If yes, optional V	Netland Site I	ID: WL	-006	
137DD01 00V										
HYDROLOGY										
Wetland Hydrolo							_		ndicators (minimum	of two required)
		e is required; ched	k all tha						oil Cracks (B6)	
Surface Wat				•	Stained Leaves (E	39)	<u> </u>	_	Patterns (B10)	
High Water					Fauna (B13)		_		Lines (B16)	
Saturation (A	•		_	•	eposits (B15)	24)	_		on Water Table (C2)	
Water Marks			_		gen Sulfide Odor (0	· -		-	urrows (C8)	(00)
Sediment De			_	•	ed Rhizospheres o		J3) <u> </u>		Visible on Aerial Im	
Drift Deposit Algal Mat or					ice of Reduced Iro				Stressed Plants (Di ic Position (D2)	1)
Iron Deposits			_	•	uck Surface (C7)	Tilled John (Je)			quitard (D3)	
	/isible on Aerial In	nagery (B7)		•	Explain in Remark	ks)			graphic Relief (D4)	
	egetated Concave	. , ,		,	,	-,	_		ral Test (D5)	
Field Observatio										
Surface Water Pr		Yes No) <u>x</u>	Depth	(inches):					
Water Table Pres	sent?	Yes No) <u>x</u>	Depth	(inches):		Wetland Hy	drology Pres	ent? Yes X	(No
Saturation Preser		Yes No			(inches):					<u> </u>
(includes capillary		141				2 2 2 2 3 3 4 4 4				
Describe Recorde	ed Data (stream g	gauge, monitoring	well, aeı	rial photo	os, previous inspe	ctions), if availabl	le:			
Remarks:										

								0
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
. Carex lurida	70	Yes	OBL	Number of Domi That Are OBL, F.			2	(A)
Scirpus atrovirens	30	Yes	OBL					_(' ')
Rumex obtusifolius	15		FAC	Total Number of Species Across			2	(B)
								_(-/
				Percent of Domin That Are OBL, F.			100	(A/E
				,	,			_, .
				Prevalence Inde				
·				Total % Co	ver of:	M	ultiply by:	_
	115	= Total Cover		OBL species	100	_		_
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
				FAC species	15		45	
				FACU species	0	-	0	_
				UPL species	0	-	0	_
				Column Totals:	115	_ (A)	145	(E
				Prevalenc	e Index = B/A =	1.26		
				Hydrophytic Ve	_			
				X 1 - Rapid To		_	ation	
	0	= Total Cover		X 3 - Prevaler				
b Stratum (Plot size: 5 ft.)					ogical Adaptatio		vide supportin	ıg
				data in f	Remarks or on a	a separate	e sheet)	
				Problematic	Hydrophytic V	enetation	1 (Evolain)	
				¹ Indicators of hydbe present, unles				
				be present, unles	ss disturbed or p	noblema		
				Definitions of V	egetation Strat	a:		
				Tree – Woody pl	ants 3 in. (7.6 c	m) or mo	re in diameter	
				at breast height ((DBH), regardles	ss of heig	jht.	
				Sapling/shrub -	- Woody plants I	ess than	3 in. DBH	
				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
				Herb – All herba	ceous (non-woo	dy) plant	s, regardless	of
0				size, and woody				
1				Woody vines –	All woody vines	greater th	nan 3.28 ft in	
2				height.				
	0	= Total Cover						
ody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
_				Vegetation	Yes	X N	1_	
				Present?	res _	N	·	
•								
	0	= Total Cove	r					

SOIL Sampling Point: DP-020 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/2 60 10YR 4/4 MS Clay Loam 7.5 YR 4/6 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes Χ Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Project		City/Coun	nty: Chauta	auqua			Sampling Date:	Jul 31, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC					State:	NY	Sampling Point:	DP-021	
Investigator(s):	James Ireland		· · · · · · · · · · · · · · · · · · ·	Section, To	ownship, Range	e:	Town of Ripl	lev		· 	
Landform (hillslope,		Terrace			f (concave, con	·!		onvex		Slope (%):	2
, ,	,	LRR R		Lat: 42.189001°	·					Datum: N	
Subregion (LRR or	•	-			-IN	Long.	-		Net Mess		ADOO
Soil Map Unit Name		tauqua silt loam, 3 to 8 p						NWI classific		ed	
•	· ·	n the site typical for this	•			lo		explain in Re	•		
		, or Hydrology				∖re "Nori	rmal Circums	tances" pre	sent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	? (I	f neede	d, explain an	ny answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map si	howing sam	pling point	locat	tions, trar	nsects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	a				
Hydric Soil Prese		Yes	No	Х	within a Wetl			Yes	No)	X	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetla	and Site ID:				
HYDROLOGY											
Wetland Hydrolo							Se	econdary Inc	dicators (minimum	of two require	ed)
_		e is required; check all th	nat apply)					-	Cracks (B6)	0	<i>5</i> 4,
Surface Wat	•	10.040		Stained Leaves (E	B9)				atterns (B10)		
High Water		_	_	Fauna (B13)			_	Moss Trim L			
Saturation (A		_	_	posits (B15)					Water Table (C2)		
Water Marks	s (B1)	_	Hydroge	en Sulfide Odor ((C1)		<u> </u>	Crayfish Bur	rrows (C8)		
Sediment De	eposits (B2)	_	Oxidized	d Rhizospheres o	on Living Roots	s (C3)	<u> </u>	Saturation V	isible on Aerial Im	agery (C9)	
Drift Deposit	ts (B3)	_	_ Presenc	ce of Reduced Iro	on (C4)		s	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	* *	_	_	Iron Reduction in	,	(6)		-	Position (D2)		
Iron Deposits		_		uck Surface (C7)				Shallow Aqu			
	Visible on Aerial Im		Other (E	Explain in Remar	·ks)				aphic Relief (D4)		
Sparsely Ve	egetated Concave S	Surface (B8)					F	-AC-Neutra	I Test (D5)		
Field Observatio											
Surface Water Pro		Yes No x				18/ 04	O Disabat	· Dress	12 Van	N.	Y
Water Table Pres		Yes No x		(inches):		Weu	tland Hydrol	ogy Presei	nt? Yes	NO_	<u>X</u>
Saturation Preser		Yes Nox	Deptn (inches):	Ī						
(includes capillary	y fringe)	auge, monitoring well, a			ections), if availa	able:					
Remarks:											
No wetland hydrolo	ogy observed										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 00101	Ороскоот	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (4)
2				That Are OBL, FACW, or FAC.	0(A)
3				Total Number of Dominant Species Across All Strata:	2 (B)
<u> </u>					(0)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
5					
6				Prevalence Index worksheet:	
7		= Total Cover		Total % Cover of:	Multiply by:
Cooling/Charle Ctroture (Diet sizes 45 ft.)	0	= Total Cover		OBL species 10	$x 1 = \underline{10}$ $x 2 = \underline{0}$
Sapling/Shrub Stratum (Plot size: 15 ft.)				· ·	x 2 = 0 $x 3 = 0$
1				FACU species 30	x 4 = 120
2				UPL species 95	x 5 = 475
3				Column Totals: 135	(A) <u>605</u> (B)
4					
5				Prevalence Index = B/A = 4	.48
6				Hydrophytic Vegetation Indicate	
7				1 - Rapid Test for Hydrophyt 2 - Dominance Test is >50%	
	0	= Total Cover		3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	
1. Triticum aestivum	95	Yes	UPL	data in Remarks or on a	separate sheet)
2. Holcus lanatus	30	Yes	FACU	Problematic Hydrophytic Veg	getation ¹ (Explain)
3. Scirpus atrovirens	10	No	OBL	¹ Indicators of hydric soil and wetla	and hydrology must
4.				be present, unless disturbed or pr	oblematic.
5.				Definitions of Vegetation Strata	:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.				at breast height (DBH), regardless	•
8.				Sapling/shrub – Woody plants le	ss than 3 in. DBH
				and greater than or equal to 3.28	ft (1 m) tall.
9 10				Herb - All herbaceous (non-wood	y) plants, regardless of
11.				size, and woody plants less than 3	3.28 ft tall.
				Woody vines – All woody vines g	reater than 3.28 ft in
12		T 0		height.	
	135	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	v
3				Present? Yes _	NoX
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-021 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Project		City/Coun	ity: Chauta	uqua County		Sampling Date:	Aug 3, 20	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-022	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of R	inlev	•		
Landform (hillslope,		Hillslope			(concave, conv		Convex		Slope (%):	2
		Пизоро				•			Datum: N	
Subregion (LRR or I	-			Lat: 42.190801	Ň i	_ong: 79.748540				ADOS
Soil Map Unit Name		silt loam; 3 to 8 percent s					NWI classific		ped	
·	-	n the site typical for this t	-			(If no	, explain in R	emarks.)		
		, or Hydrology				re "Normal Circun	nstances" pre	esent? Yes	X No)
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	P (If	needed, explain	any answers	in Remarks.)		
SUMMA	RY OF FIND	INGS – Attach site	map sl	nowing sam	pling point	locations, tra	ansects, i	mportant fea	tures, etc.	
Hydrophytic Vege	tation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No No	Х	within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	l Wetland Site ID:	:			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary In	dicators (minimum	of two requir	ed)
		o is required; check all th	at apply)					· · · · · · · · · · · · · · · · · · ·	or two requir	eu)
Surface Water		e is required; check all the		tained Leaves (E	30)			l Cracks (B6) atterns (B10)		
High Water T		_	-	Fauna (B13)	29)		Moss Trim I			
Saturation (A		_	•	posits (B15)				Water Table (C2))	
Water Marks	-	<u> </u>	•	n Sulfide Odor (C1)	_	Crayfish Bu			
Sediment De		_	•	Rhizospheres	•	(C3)	=	/isible on Aerial Im	nagery (C9)	
Drift Deposits	. , ,	_	-	e of Reduced Iro	_			Stressed Plants (D		
Algal Mat or	Crust (B4)	_	Recent I	ron Reduction ir	n Tilled Soils (C	6)	Geomorphic	Position (D2)		
Iron Deposits	s (B5)	_	Thin Mud	ck Surface (C7)		_	Shallow Aqu	uitard (D3)		
	isible on Aerial Im		Other (E	xplain in Remar	ks)	_		raphic Relief (D4)		
Sparsely Veg	getated Concave	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observation										
Surface Water Pre		Yes Nox								
Water Table Prese		Yes Nox				Wetland Hydr	ology Prese	nt? Yes	No _	Х
Saturation Presen		Yes Nox	_ Depth (i	inches):						
(includes capillary Describe Recorde	<u> </u>	auge, monitoring well, ae	rial photos	nrevious inspe	ections), if availa	ahle.				
D0001100 11000.22	u Data (ottoa 5.	augo, monitoring,	iliui piiotes	, providuoo _F -	, ii a.a	iDio.				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 00101	Ороской.	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (۸)
2.				That Ale OBE, I AGW, OIT AC.	A)
3.				Total Number of Dominant Species Across All Strata: 1 (i	В)
4				Percent of Dominant Species	
5				·	A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species <u>0</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species $0 x 2 = 0$	
1				FAC species <u>0</u> x 3 = <u>0</u>	•
2				FACU species 0 x 4 = 0	
3				UPL species 100 x 5 = 500 Column Totals: 100 (A) 500	(P)
4.				Column Totals: <u>100</u> (A) <u>500</u>	(D)
5.				Prevalence Index = B/A = 5	
6.				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
Triticum aestivum	100	Yes	UPL	data in Remarks or on a separate sheet)	
2.				Problematic Hydrophytic Vegetation ¹ (Explain)	
3.				¹ Indicators of hydric soil and wetland hydrology must	
4.				be present, unless disturbed or problematic.	
5.				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
9.				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
12.				Woody vines – All woody vines greater than 3.28 ft in height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		-			
1.	_				
2.				Hydrophytic	
3				Vegetation Present? Yes NoX	
4	_				
·-	0	= Total Cove			
Remarks: (Include photo numbers here or on a separate shee		10141 0010	•	1	
Just been harvested	,				

SOIL Sampling Point: DP-022 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/3 80 10YR 4/6 MS Silty Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

And form (hillstope, terrace, etc.): Drainageway	Project/Site:	South Ripley Sc	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 3, 202	20
Anderen Millstope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope (%): 3 subregion (RR or MLRA)_ LRR R Lat 42.191887*N Long: 79.748717*W Dosum: NAD83 solid Map Unit Name: BsB - Bustl sittloam; 3 to 8 percent slopes we climate? hydrologic conditions on the site systed for this time of year? Yes we lotted the conditions on the site systed for this time of year? Yes we Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes x No Welgedation Soil or Hydrology raturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrolytic Vegetation Present? Yes x No If yes, optional Welland Site ID: 007 Welland Hydrology Present? Welland Hydrology Present? Welland Hydrology Indicators: Pimary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (Bis) Water-Stained Leaves (Bis) Water Marks (B1) Surface Soil Cracks (Bis) Water Marks (B1) Again Mar Corpust (B4) Again Faund Faund (B1) Again Mar Corpust (B4) Again Faund Faund (B1) Again Mar Corpust (B4) Again Faund (B1) Again Mar Corpust (B4) Again Mar Corpust (B4) Again Mar Corpust (B4) Again Mar Corpust (B4) Again Marco (Crat) Self-memarks (B1) Again Mar Corpust (B4) Again Marco (Crat) Again Mar Corpust (B4) Again Marco (Crat) Again Marco (Crat) Feed Deposits (B3) Business (B4) Business (Applicant/Owner:	Connectgen Op	erating LLC				State:	: NY	Sampling Point:	DP-023	
Andorm (hillstope, terrace, etc.): Drainageway: Local relief (concave, convex, none): Concave Stope (%): 3 subregion (LRR or MLRA): LRR R Latt. 42.191887'N Long: 79.745717'W Datum: NAD83 loal Map Unit Name: BisB-Bust sitt loam; 3 to 8 percent slopes ver Vegetation Son the site typical for this time of year? Yes X No (If no, explain in Remarks.) ver Vegetation Soil or Hydrology significantly disturbed? An enhanced Circumstances' present? Yes X No (If no, explain in Remarks.) ver Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) **SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (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 (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes X No (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes X No (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes X No (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes X No (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes X No (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain any answers in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Yes (If needed, explain in Remarks.) **Wetland Hydrology Present? Ye	Investigator(s):				Section, To	ownship. Range	Town of I	Riplev	•		
Subregion (LRR or MLRA; LRR R			Drainageway			_				Slone (%).	3
Note	, , ,	•	Diamageway		·		•				
re climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.) re Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes x No (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		-			Lat: 42.191887	°N i	Long: 79./48/1				AD03
re Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No re Vegetation Soil or Hydrology naturally problematic? ((if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes x No within a Wetland? Yes x No x Depth (inches): Wetland Hydrology Present? Yes x No within a Wetland? Yes x No yetland Present? Yes x No x Depth (inches): Wetland Hydrology Present? Y	Soil Map Unit Name	e: BsB - Busti s	silt loam; 3 to 8 perc	ent slopes				NWI classifi	cation: Not Mapp	oed	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are climatic / hydrolo	logic conditions or	n the site typical for	this time of y	ear? Yes	X No	o (If no	o, explain in R	temarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	l? A	re "Normal Circu	ımstances" pr	esent? Yes	<u>x</u> No	
Hydrophytic Vegetation Present? Yes x No within a Wetland? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: PEM Datapoint for Wetland 007. In drainageway that flows East through wheat field ### Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Mari Deposits (B15) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B3) Iron Mark Surface (B7) Iron Deposits (B5) Iron Deposits (Are Vegetation	, Soil	, or Hydrology	nat	turally problematic?	? (I	f needed, explain	n any answers	in Remarks.)		
Hydric Soil Present? Yes	SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	: locations, t	ransects,	important feat	tures, etc.	
Hydric Soil Present? Yes	Hydrophytic Vege	etation Present?	Yes _	x No)	Is the Sample	ed Area				
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: 007 Remarks: (Explain alternative procedures here or in a separate report.) PEM Datapoint for Wetland 007. In drainageway that flows East through wheat field ### Datapoint for Wetland 007. In drainageway that flows East through wheat field ###################################								Yes	<u>x</u> No		ļ
### PEM Datapoint for Wetland 007. In drainageway that flows East through wheat field ###################################	I -		Yes _	x No)	If yes, optiona	al Wetland Site IC	D: 007			
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table (A2) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation (A3) Saturation Visible on Aerial Imagery (C7) Charling Remarks) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Charling Remarks) Sparsely Vegetated Concave Surface (B8) Water Table (Pesent? Yes No X Depth (inches): Water Table (A2) Secondary Indicators (minimum of two required) X Dry Prainage Patterns (B10) Adquatic Fauna (B13) Moss Trim Lines (B16) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No No Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No X No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No No Saturation Present? Yes No X No Saturation Present? Yes No X No Saturation Present? Yes No X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No X No Saturation Present? Yes X No Saturation Present?	HYDROLOGY										
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) 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) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Water Present? Yes No No Depth (inches): Water Table (A2) Marl Deposits (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Shallow Aquitard (D3) Field Observations: Surface Water Present? Yes No No Depth (inches): Wetland Hydrology Present? Yes No No No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		nav Indicators:						Secondary In	ndicators (minimum	of two require	2d)
Surface Water (A1)			a is required; check	all that apply	۸		_		· · · · · · · · · · · · · · · · · · ·	Or two require	<i>3</i> 0)
High Water Table (A2)		•	3 IS required, criccis		•	<u></u>					
Saturation (A3)					•	59,	^	_			
Water Marks (B1)							_			i	
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Sediment Deposits (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) X FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X No No Depth (inches): Wetland Hydrology Present? Yes No No No No No No No No No N	· ·	•				(C1)	<u> </u>	_			
Algal Mat or Crust (B4)					-		(C3)			nagery (C9)	
Iron Deposits (B5)	Drift Deposits	.s (B3)		Prese	ence of Reduced In	on (C4)	<u> </u>	Stunted or	Stressed Plants (D	1)	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Algal Mat or	Crust (B4)		Rece	nt Iron Reduction ir	n Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Iron Deposits	s (B5)		Thin I	Muck Surface (C7)		_	_ Shallow Aq	uitard (D3)		
Field Observations: Surface Water Present? Yes No _x _ Depth (inches): Water Table Present? Yes No _x _ Depth (inches): Saturation Present? Yes No _x _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				Other	(Explain in Remar	·ks)		_			
Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sparsely Veg	getated Concave	Surface (B8)				<u> </u>	FAC-Neutra	al Test (D5)		
Water Table Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes x No Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observation	ns:									
Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							Wetland Hyd	Irology Prese	ent? Yes	<u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			Yes No _	x Dept	th (inches):						
	<u> </u>		aguae monitorina w	oll perial pho	stoe previous inspe	octions) if avail:	ahla:				
Remarks:	Describe Records	iu Dala (Silvain 5	duge, monitoring	atiiai piio	105, previous maps	10110113j, 11 avam	abic.				
Remarks:											
	Remarks:										

				Sampling Point: DP-023	
Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
·				Number of Dominant Species	(A)
1				That Are OBL, FACW, or FAC: 5	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 5	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		= Total Cover		OBL species 70 x 1 = 70	_
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 25 x 2 = 50	
1				FAC species <u>40</u> x 3 = <u>120</u>	_
•				FACU species <u>0</u> x 4 = <u>0</u>	_
2	_			UPL species <u>0</u> x 5 = <u>0</u>	_
3				Column Totals: <u>135</u> (A) <u>240</u>	(B)
4					
5				Prevalence Index = B/A = 1.77	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	0	Total Caver		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
erb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
		Van	EACW.	data in Remarks or on a separate sheet)	
1. Onoclea sensibilis	25	Yes	FACW	D. H. C. H. L. C. Y. L. C. 1/5 L. L.	
2. Euthamia graminifolia	30	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Carex vulpinoidea	40	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must	
4. Scirpus atrovirens	30	Yes	OBL	be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
9.				and greater than or equal to 3.28 ft (1 m) tall.	
				Herb – All herbaceous (non-woody) plants, regardless of	
10	_			size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
	125	= Total Cover			
Voody Vine Stratum (Plot size: 30 ft.)					
1. Vitis riparia	10	Yes	FAC		
2.				Hydrophytic	
				Vegetation	
3				163 <u>~</u> NU	
3.					
3. 4.	10	= Total Cove			

SOIL Sampling Point: DP-023 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 60 7.5YR 4/6 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Proj	ject	City/Cou	nty: Chauta	uqua County		Sampling Date:	Aug 3, 20)20
Applicant/Owner:	Connectgen Op	erating LLC				State:	NY	Sampling Point:	DP-024	
Investigator(s):	James Ireland			Section, T	ownship, Range	: Town of R	Riplev	•		
Landform (hillslope,		Hillslope			ef (concave, conv		Convex		Slope (%):	2
	•	Πιιιοιορο			,				• • • •	
Subregion (LRR or I	-			Lat: 42.192653	3°N L	_ong: 79.747244			Datum: N	AD63
Soil Map Unit Name	e: BsB - Busti	silt loam, 3 to 8 perc	ent slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions or	n the site typical for t	his time of yea	ar? Yes	<u>x</u> No	(If no.	, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	d? A	re "Normal Circun	nstances" pre	esent? Yes	X No	0
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic	;? (If	needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing san	npling point	locations, tr	ansects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	No	x	
Wetland Hydrolog	gy Present?	Yes	No	х	If yes, optional	l Wetland Site ID:	:			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two requir	red)
_		e is required; check a	all that annly)				-	il Cracks (B6)	or two roquir	<u>- 00)</u>
Surface Water		5 13 required, effect t		Stained Leaves ((B9)			atterns (B10)		
High Water 1			_	Fauna (B13)	(50)	_	Moss Trim I			
Saturation (A				eposits (B15)		Dry-Season Water Table (C2)				
Water Marks	•			en Sulfide Odor	(C1)	Crayfish Burrows (C8)				
Sediment De					on Living Roots	(C3)	·	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Presen	ce of Reduced Ir	ron (C4)		Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	Iron Reduction i	in Tilled Soils (Ce	მ)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	uck Surface (C7))	_	Shallow Aq	uitard (D3)		
	isible on Aerial In	• , , ,	Other (Explain in Rema	ırks)	_		raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre		Yes No _								
Water Table Pres		Yes No _				Wetland Hydr	ology Prese	ent? Yes	No _	Х
Saturation Presen		Yes No _	x Depth	(inches):						
(includes capillary		gauge, monitoring we	ll aerial nhoto	oc previous insp	noctions) if avails	hla.				
Describe Records	u Dala (Silvain 9	duge, monitoring wo	II, aciiai prioto	15, pievious mop	ections, il avana	.DIE.				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	ороског.	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (4)
2				That Are OBL, FACW, of FAC.	0(A)
3				Total Number of Dominant Species Across All Strata:	1 (B)
<u> </u>					<u> </u>
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
5					
6				Prevalence Index worksheet:	
7		= Total Cover		Total % Cover of:	Multiply by:
Cooling/Charle Ctroture (Diet sizes 45 ft.)	0	= Total Cover			x 1 = 0 $x 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft.)				· ·	x 3 = 0
1					x 4 = 0
2				UPL species 100	x 5 = 500
3				Column Totals: 100	(A) <u>500</u> (B)
4					
5				Prevalence Index = B/A = 5	
6				Hydrophytic Vegetation Indicat	
7				1 - Rapid Test for Hydrophyt 2 - Dominance Test is >50%	
	0	= Total Cover		3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	
1. Triticum aestivum	100	Yes	UPL	data in Remarks or on a	separate sheet)
2				Problematic Hydrophytic Ve	getation ¹ (Explain)
3				¹ Indicators of hydric soil and wetla	and hydrology must
4.				be present, unless disturbed or pr	oblematic.
5.				Definitions of Vegetation Strata	:
6				Tree – Woody plants 3 in. (7.6 cm	n) or more in diameter
7.				at breast height (DBH), regardless	•
8.				Sapling/shrub – Woody plants le	ss than 3 in. DBH
9.				and greater than or equal to 3.28	ft (1 m) tall.
10.				Herb - All herbaceous (non-wood	ly) plants, regardless of
				size, and woody plants less than	3.28 ft tall.
11				Woody vines – All woody vines g	reater than 3.28 ft in
12				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes _	Nox
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-024 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 60 10YR 5/8 MS Silty Clay Loam 0-20 7.5YR 4/6 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Projec	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 3, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-026	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of R	Riplev			
Landform (hillslope,		Hillslope			of (concave, con		Convex		Slope (%):	3
, ,		Τιιισιορο			•	•			Datum: N_i	
Subregion (LRR or I	-			Lat: 42.193324	¿™ i	Long: 79.749267				AD03
Soil Map Unit Name		ine sandy loam; strong					NWI classific		ed	
Are climatic / hydrol	logic conditions or	n the site typical for thi	is time of ye	ar? Yes	<u> </u>	o (If no,	, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	J? A	Are "Normal Circun	nstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	arally problematic?	? (I	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	ite map :	showing sam	npling point	locations, tra	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area	_		_	_
Hydric Soil Presei		Yes	No		within a Wetl		Yes	No >	K	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID:	:			
HYDROLOGY										
	Indicators						Cacandary In	dicatora (minimum	of two roquir	4/
Wetland Hydrolo		instruction and all	Lill Seamhal					dicators (minimum	of two require	ea)
		e is required; check all			(50)			il Cracks (B6)		
Surface Water T		-		-Stained Leaves (I	B9)	_	_	atterns (B10)		
High Water 1 Saturation (A		-		c Fauna (B13) eposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks	•	-		gen Sulfide Odor ((C1)	Crayfish Burrows (C8)				
Sediment De		-		ed Rhizospheres		<u> </u>				
Drift Deposits	. , ,	-		nce of Reduced Ire	=			Stressed Plants (D		
Algal Mat or	, ,	-		t Iron Reduction in	, ,			c Position (D2)	• ,	
Iron Deposits	, ,	-		luck Surface (C7)	•	, <u> </u>	Shallow Aqu			
Inundation V	isible on Aerial Im	nagery (B7)	Other ((Explain in Remar	rks)	<u> </u>	Microtopogr	raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				_	FAC-Neutra	al Test (D5)		
Field Observatio	ons:									
Surface Water Pre	esent?	Yes No:		ı (inches):						
Water Table Pres	ent?	Yes No:		n (inches):		Wetland Hydr	ology Prese	ent? Yes	No	Х
Saturation Presen		Yes No	x Depth	ı (inches):						
(includes capillary		asitaring wall	ial phot	====deve inen	# a) if avails	11=:				
Describe Recorde	ed Data (stream ga	gauge, monitoring well,	aeriai priou	os, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Malus spp.	30	-	-	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)	
Acer saccharum	-	Yes	FACU	That Are OBE, I ACW, OF AC.	
3.				Total Number of Dominant Species Across All Strata: 5 (B)	,
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/	B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 20 x 2 = 40	
1. Rhus typhina	30	Yes	UPL	FAC species <u>0</u> x 3 = <u>0</u>	
Acer saccharum	20	Yes	FACU	FACU species <u>140</u> x 4 = <u>560</u>	
3	_			UPL species 30 x 5 = 150	D)
4.				Column Totals: <u>190</u> (A) <u>750</u> (I	В)
5.				Prevalence Index = B/A = 3.95	
6.				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	F0	- Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	50	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
Onoclea sensibilis	_ 20	No	FACW	data in Remarks or on a separate sheet)	
2. Rubus idaeus	70	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
Solidago canadensis	30		FACU	¹ Indicators of hydric soil and wetland hydrology must	
4.	_			be present, unless disturbed or problematic.	
5.				Definitions of Vegetation Strata:	
6.	_			Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8.	_			Sapling/shrub – Woody plants less than 3 in. DBH	
9.	_			and greater than or equal to 3.28 ft (1 m) tall.	
10.	_			Herb – All herbaceous (non-woody) plants, regardless of	
11.	_			size, and woody plants less than 3.28 ft tall.	
12.				Woody vines – All woody vines greater than 3.28 ft in height.	
	120	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		•			
1	_				
2.				Hydrophytic	
3.				Vegetation Present? Yes NoX	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate shee				-	
Did not identify crabapple species therefore not included in ca					

SOIL Sampling Point: DP-026 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 10YR 4/4 80 7.5YR 4/3 10 MS Silt Loam 0-20 10YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 3, 202	20
Applicant/Owner:	ConnectGEN, LL	 LC		<u> </u>		State:	: NY	Sampling Point:	DP-027	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley			
Landform (hillslope,		Depression			f (concave, conv		Convex		Slope (%):	2
, , ,	,	Depression			•	,		`		
Subregion (LRR or I	-			Lat: 42.193892°	°N ı	Long: 79.74888			Datum: NA	4D03
Soil Map Unit Name	: BsB - Busti s	silt loam; 3 to 8 perc	ent slopes				NWI classific	cation: Not Mapp	ed	
Are climatic / hydrole	ogic conditions or	n the site typical for	this time of ye	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circu	mstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, explain	ı any answers	in Remarks.)		
SUMMA	RY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, to	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	<u>х</u> No		
Wetland Hydrolog	y Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 008			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary In	dicators (minimum	of two require	ad)
		e is required; check	all that apply)					il Cracks (B6)	Or two require	<i>3</i> 0)
Surface Water		IS required, check		-Stained Leaves (E	<u></u>		<u> </u>	atterns (B10)		
High Water T				ic Fauna (B13)	39)	<u>X</u>	Moss Trim I			
Saturation (A				Deposits (B15)			_	Water Table (C2)		
Water Marks	•			gen Sulfide Odor ((C1)	<u> </u>	Crayfish Bu			
Sediment De				ed Rhizospheres o		(C3)	-	visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)		Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (C	x (6)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aqu	uitard (D3)		
	isible on Aerial Im		Other /	(Explain in Remark	ks)	X	_	raphic Relief (D4)		
Sparsely Vec	getated Concave	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observation	ns:									
Surface Water Pre		Yes No _								
Water Table Prese		Yes No _		h (inches):		Wetland Hyd	rology Prese	ent? Yes x	K No	
Saturation Presen		Yes No _	x Depth	ı (inches):						
(includes capillary	<u> </u>	auge, monitoring we	oll perial phot	toe previous inspe	octions) if avail:	ahla:				
Describe Records	u Dala (Sircam go	auge, mormoning	III, aciiai prios	us, previous mopo	Cliuris), ii avanc	abic.				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	70 00101	ороског.	Otatuo	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant Species Across All Strata: 3 (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species 40 x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 90 x 2 = 180
1				FAC species <u>0</u> x 3 = <u>0</u>
2				FACU species 0 x 4 = 0
3				UPL species 0
4.				Column Totals: 130 (A) 220 (B)
5				Prevalence Index = B/A = 1.69
6.				Hydrophytic Vegetation Indicators:
7				X 1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Onoclea sensibilis	30	Yes	FACW	data in Remarks or on a separate sheet)
2. Juncus pylaei	40	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Symphyotrichum lanceolatum	60	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
	130	= Total Cover	<u></u>	
Woody Vine Stratum (Plot size: 30 ft.)				
1				
2				Hydrophytic Vegetation
3				Present? Yes X No
4.				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL Sampling Point: DP-027 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-10 10YR 2/1 100 Clay Loam 10YR 4/1 10YR 5/6 60 Clay 7.5YR 4/4 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sc	olar and Storage Project	t	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 3, 202	20
Applicant/Owner:	Connectgen Op	perating LLC				State:	: NY	Sampling Point:	DP-028	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of F	Riplev	-		
Landform (hillslope,		Hillslope			ef (concave, con		Convex		Slope (%):	2
	•	Тішэюрс				•			Datum: N	
Subregion (LRR or I				Lat: 42.194098	J°N I	Long: 79.74903				4005
Soil Map Unit Name		silt loam; 3 to 8 percent					_ NWI classific		ped	
Are climatic / hydrol	ogic conditions or	n the site typical for this	time of yea	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	X , Soil	, or Hydrology	signi	ficantly disturbed	d? A	Are "Normal Circu	ımstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (1	f needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	te map s	showing sam	npling point	: locations, t	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Preser		Yes	— No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No	X	If yes, optiona	al Wetland Site ID	D :			
		dures here or in a sepai 108. In active wheat f								
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all t	that apply)				Surface Soi	il Cracks (B6)		
Surface Wate	er (A1)	_	Water-	Stained Leaves ((B9)	_	Drainage P	atterns (B10)		
High Water T	Γable (A2)	_	Aquatio	Fauna (B13)		_	Moss Trim	Lines (B16)		
Saturation (A	43)	_	Marl De	eposits (B15)		Dry-Season Water Table (C2)				
Water Marks	i (B1)	_	Hydrog	gen Sulfide Odor ((C1)	Crayfish Burrows (C8)				
Sediment De	posits (B2)	_	Oxidize	ed Rhizospheres	on Living Roots	(C3)	_ Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits		_		ce of Reduced In		_	_	Stressed Plants (D	1)	
Algal Mat or	* *	_		Iron Reduction in	-	(6)	_	c Position (D2)		
Iron Deposits	-	<u>-</u>		uck Surface (C7)		_	Shallow Aq			
	isible on Aerial In	_	Other (Explain in Remar	rks)	_		raphic Relief (D4)		
Sparsely Veg	getated Concave	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observation					Ī					
Surface Water Pre		Yes Nox								
Water Table Prese		Yes No _x				Wetland Hyd	drology Prese	ent? Yes	No _	Х
Saturation Presen		Yes No>	<u>C</u> Depth	(inches):	Ī					
(includes capillary Describe Recorde	<u> </u>	gauge, monitoring well, a	aerial photo	ns previous inspe	ections) if availa	ahle.				
D	a Data (C. I.I.	, augo,	20.101 p.1.2	70, p. 01. c = =	3000.00,,	2010.				
Remarks: No wetland hydrolo	gy observed									

							Point: DP-02	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Tes	t worksheet:			
•	70 GOVC1	Орсоюз	Otatus	Number of Domi			•	(4)
			-	That Are OBL, F.	ACW, or FAC:		0	_(A)
				Total Number of Species Across			1	(B)
·							<u> </u>	_(B)
		-		Percent of Domin That Are OBL, F.			0	(A/B
							-	
				Prevalence Inde				
		= Total Cover		Total % Co			lultiply by:	_
Charles (Charles Charles (District 45.6))		= Total Cover		OBL species	0			
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	_	0	
				FACU species	0	_	0	
				UPL species	30	x 5 =	150	
				Column Totals:	0	(A)	0	(B)
				D 1	o lodo: D/A	F 00		
					e Index = B/A =			
				Hydrophytic Ve	_		tation	
					est for Hydrophy nce Test is >50%		ialiUH	
	0	= Total Cover		3 - Prevaler	nce Index is ≤3.0)1		
b Stratum (Plot size: 5 ft.)					ogical Adaptatio Remarks or on a			g
Triticum aestivum	30	Yes	UPL	uata III i	Kemarks or on a	i Separai	e sneet)	
				Problemation	Hydrophytic Ve	egetation	¹ (Explain)	
				¹ Indicators of hy				
				be present, unles	ss disturbed or p	roblema	tic.	
				Definitions of V	egetation Strat	a:		
				Tree – Woody pl	ants 3 in. (7.6 cr	m) or mo	re in diameter	
				at breast height ((DBH), regardles	ss of hei	ght.	
				Sapling/shrub -				
				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
).				Herb – All herba size, and woody				of
·				-				
2.				Woody vines – height.	All woody vines (greater t	han 3.28 ft in	
	30	= Total Cover						
ody Vine Stratum (Plot size: 30 ft.)		-						
				Hydrophytic				
				Vegetation Present?	Yes _	,	do X	
				resenti	103			
	0	= Total Cove	<u> </u>					
	U	= Total Cove	1					

SOIL Sampling Point: DP-028 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 3, 202	20
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State	e: NY	Sampling Point:	DP-030	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	Ripley	_		
Landform (hillslope,		Depression			of (concave, con		Concave		Slope (%):	2
		Бергесске			•	·			Datum: NA	
Subregion (LRR or I	-			Lat: 42.195708	<u>i"N</u>	Long: 79.75221				1000
Soil Map Unit Name		a channery silt loam					_ NWI classifi		ped	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of y	/ear? Yes	<u> </u>	o (If n	no, explain in F	₹emarks.)		
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	1? A	Are "Normal Circu	umstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	na	turally problematic?	? (I	lf needed, explair	n any answers	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations, t	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No	<u> </u>	Is the Sample	ed Area				
Hydric Soil Presei		Yes	X No		within a Wetl		Yes	<u>x</u> No		
Wetland Hydrolog		Yes _	x No		If yes, optiona	al Wetland Site II	D: 009	1		
		tland 009. In trans								
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check	all that apply	/)			_ Surface So	oil Cracks (B6)		
Surface Wate	er (A1)		Wate	er-Stained Leaves (I	B9)	X	Drainage P	Patterns (B10)		
High Water 1	Table (A2)		Aqua	tic Fauna (B13)		_	_ Moss Trim	Lines (B16)		
Saturation (A	•		_	Deposits (B15)		Dry-Season Water Table (C2)				
Water Marks				ogen Sulfide Odor (Crayfish Burrows (C8)				
Sediment De	,			zed Rhizospheres	=	(C3)		Visible on Aerial Im		
Drift Deposits				ence of Reduced In	, ,		_	Stressed Plants (D	1)	
Algal Mat or	, ,		_	ent Iron Reduction in	•	(26) <u>x</u>		ic Position (D2)		
Iron Deposits		n/(P7)		Muck Surface (C7)			_	quitard (D3)		
	isible on Aerial Im		Other	r (Explain in Remar	íks)	<u> </u>		graphic Relief (D4)		
	getated Concave	Surface (bo)				<u> </u>	FAC-Neutra	al Test (Do)		
Field Observatio		Vac No	y Don	th (inches):		İ				
Surface Water Pre		Yes No				Motland Uw	dealogy Dros	ent? Yes)	✓ No	
Water Table Press		Yes No		th (inches):		Wetlanu riyo	drology Prese	antr res	No _	
Saturation Present (includes capillary		Yes No _	х рер	th (inches):		İ				
	<u> </u>	auge, monitoring we	ell, aerial pho	otos, previous inspe	ections), if availa	able:				
					,,					
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		ndicator Status	Dominance Test worksheet:
Populus deltoides	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				That Ale OBL, FACW, OFFAC.
3.				Total Number of Dominant Species Across All Strata: 3 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
7.		= Total Cover		OBL species 115 x 1 = 115
Sapling/Shrub Stratum (Plot size: 15 ft.)		- 10tal 00vol		FACW species 30 x 2 = 60
Populus deltoides	_ 15	Yes	FAC	FAC species 45 x 3 = 135
<u> </u>		162	FAC	FACU species 0 x 4 = 0
2				UPL species <u>0</u> x 5 = <u>0</u>
3.				Column Totals: <u>190</u> (A) <u>310</u> (B)
4				Prevalence Index = B/A = 1.63
5				
6	_			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
<i>1.</i>	_			X 2 - Dominance Test is >50%
	15	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)	_			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Leersia oryzoides	95	Yes	OBL	uata iii Neiriaiks oi oii a separate sheet)
2. Eutrochium maculatum	20	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Eupatorium perfoliatum	20	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Impatiens capensis	10	No	FACW	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	_			at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	145	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)	140	_ 10101 00101		
	_			
				Hydrophytic
2				Vegetation Y
3				Present? Yes X No
4				
	0	= Total Cover	-	
Remarks: (Include photo numbers here or on a separate shee	t.)			

SOIL Sampling Point: DP-030 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 0-12 10YR 3/2 80 7.5 YR 4/6 MS Clay Loam 10YR 4/1 7.5YR 4/6 MS 60 Clay 10YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Χ Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	ject	City/Count	ty: Chauta	uqua County		Sampling Date:	Aug 4, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-031	
Investigator(s):	James Ireland			Section, To	wnship, Range	: Town of F	Ripley	•		
Landform (hillslope,		Drainageway			(concave, conv		Concave	•	Slope (%):	1
, , ,		Diamageway				,				V D03
Subregion (LRR or I	-	<u> </u>		Lat: 42.194717°l	N L	Long: 79.75087			Datum: NA	1D03
Soil Map Unit Name	y: VoA - Volusia	ia channery silt loam	; 0 to 3 percer	nt slopes			NWI classific	cation: Not Mapp	ed	
Are climatic / hydrole	ogic conditions or	n the site typical for t	this time of ye	ar? Yes	<u>x</u> No	O (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed?	? A	re "Normal Circu	ımstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations, ti	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	l Wetland Site ID	D: 010			
HYDROLOGY										
Wetland Hydrolo	nov Indicators:						Secondary In	dicators (minimum	of two require	2d)
		e is required; check a	all that anniv)				-	il Cracks (B6)	Or two requires	,u)
Surface Water		3 15 required, oncon		Stained Leaves (B			-	atterns (B10)		
High Water T			_	c Fauna (B13)	19)	_^_	-	Lines (B16)		
Saturation (A				eposits (B15)			_	n Water Table (C2)	1	
Water Marks	•			gen Sulfide Odor (C	C1)	_	Crayfish Bu			
Sediment De				ed Rhizospheres o	•	(C3)	-	Visible on Aerial Im	agery (C9)	
Drift Deposits	s (B3)		Presen	nce of Reduced Iron	n (C4)		Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	Tilled Soils (Ce	6) <u>x</u>	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	luck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other ((Explain in Remark	(s)	X		raphic Relief (D4)		
Sparsely Vec	getated Concave	Surface (B8)				<u></u>	FAC-Neutra	al Test (D5)		
Field Observation	ns:									
Surface Water Pre		Yes No _								
Water Table Prese		Yes No _		(inches):		Wetland Hyd	rology Prese	ent? Yes x	K No	
Saturation Presen		Yes No _	x Depth	(inches):						
(includes capillary	<u> </u>	auge, monitoring we	oll perial photo	os previous inspe	otions) if avails	ahla.				
Describe Records	d Data (Stream g	auge, morntoning are	al, actiai prioc	75, previous mopo.	ollonoj, n avano	ible.				
Remarks:										

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshee	t:
				Number of Dominant Specie	
1.				That Are OBL, FACW, or FA	C: 2 (A)
2				Total Number of Dominant	0 (5)
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FA	C: 100 (A/B)
6.				Prevalence Index workshe	et·
7				Total % Cover of:	Multiply by:
	0	= Total Cover		OBL species 75	x 1 = 75
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 60	x 2 = <u>120</u>
1				FAC species 0	x 3 = 0
2.				FACU species 30	x 4 = <u>120</u>
				UPL species 0	x 5 = 0
3				Column Totals: 165	(A) <u>315</u> (B)
4				Prevalence Index = B/	'A = 1 90
5					
6				Hydrophytic Vegetation Inc 1 - Rapid Test for Hydro	
7				X 2 - Dominance Test is >	
	0	= Total Cover		X 3 - Prevalence Index is	
erb Stratum (Plot size: 5 ft.)	_				tations ¹ (Provide supporting
L. Holcus lanatus	30	No	FACU	data in Remarks or	on a separate sheet)
2. Agrostis stolonifera	30	No	FACW	Problematic Hydrophyti	c Vegetation ¹ (Explain)
3. Phalaris arundinacea	60	Yes	FACW	¹ Indicators of hydric soil and	wetland hydrology must
4. Scirpus cyperinus	45	Yes	OBL	be present, unless disturbed	or problematic.
5. Carex lurida	30	No	OBL	Definitions of Vegetation S	trata:
6.				Tree – Woody plants 3 in. (7	.6 cm) or more in diameter
7				at breast height (DBH), rega	rdless of height.
				Sapling/shrub – Woody pla	nts less than 3 in. DBH
o.				and greater than or equal to	
				Herb – All herbaceous (non-	woody) plants, regardless of
10				size, and woody plants less	
11				Woody vines – All woody vin	nes greater than 3.28 ft in
12.				height.	
	195	= Total Cover			
(andy) (in a Stratum (Dist size 20 ft)	_				
oouy vine Stratum (Piot Size: 30 π.)					
<u> </u>				Hydrophytic	
·				1	
i				Vegetation	X No.
1				1	x No
/oody Vine Stratum (Plot size: 30 ft.) 1		= Total Cove		Vegetation	x No

SOIL Sampling Point: DP-031 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) % Texture Remarks (inches) 0-11 10YR 2/1 80 7.5YR 4/6 MS Clay Loam 10YR 5/1 10YR 4/6 MS 60 Clay 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

South Ripley Sc	olar and Storage P	roject	City/Cou	nty: Chauta	auqua County		Sampling Date:	Aug 4, 202	20
ConnectGEN, L	LC				State	: NY	Sampling Point:	DP-032	
James Ireland			Section, T	ownship, Range	e: Town of	Ripley	•		
	Hillslope							Slone (%):	2
·	Тиногоро			•				• • • •	
	"'. 1 O to O no	l-nee	Läli 42.134110	יווי	LONG: 19.10001		" Nat Mone		1000
	•					_		oed	
=	• •	-			o (If no	o, explain in K	emarks.)		
					re "Normal Circu	ımstances" pre	esent? Yes	X No	
, Soil	, or Hydrology	nat	urally problematic	? (I	f needed, explair	າ any answers	in Remarks.)		
ARY OF FIND	INGS – Attac	h site map	showing sam	npling point	locations, t	ransects, i	mportant feat	tures, etc.	
etation Present?	Yes	Nc	X	Is the Sample	ed Area				
ent?	Yes					Yes	No	<u>x</u>	
gy Present?	Yes		-	If yes, optiona	al Wetland Site ID) :			
						Sacandary In	dianters (minimum	of two requir	~ 4\
	- in required, abou	It all that apply	Α		_		· · · · · · · · · · · · · · · · · · ·	OI IWO IEquit	3 0)
	3 is required; checi			(Pg)					
				_' Б9)		_			
								1	
s (B1)				(C1)		_		,	
eposits (B2)			_			-		nagery (C9)	
ts (B3)			•	_		_			
Crust (B4)		Rece	nt Iron Reduction i	in Tilled Soils (C	(6)	Geomorphic	c Position (D2)		
ts (B5)		Thin !	Muck Surface (C7))	_	Shallow Aq	uitard (D3)		
		Other	(Explain in Rema	rks)	_	_			
getated Concave	Surface (B8)		<u></u>			_ FAC-Neutra	al Test (D5)		
ons:									
resent?					l				
sent?					Wetland Hyd	Irology Prese	nt? Yes	No _	Х
nt?	Yes No	x Dept	th (inches):		İ				
y fringe) ed Data (stream g	rougo monitoring	wall parial pho	stop provinue inen	cotions) if avail	able:				
30 Dala (Siream y	auge, montoning v	Vell, aeriai prio	tos, previous irispi	eciions), ii avaii	abie:				
ogy observed									
The bloom of the second of the	ConnectGEN, L James Ireland terrace, etc.): MLRA):LRR R e: BsB - Busti s ogic conditions on	ConnectGEN, LLC James Ireland terrace, etc.): Hillslope MLRA):LRR R e: BsB - Busti silt loam; 3 to 8 per ogic conditions on the site typical for x , Soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil	James Ireland terrace, etc.): Hillslope MLRA):LRR R B: BSB - Busti silt loam; 3 to 8 percent slopes logic conditions on the site typical for this time of y x , Soil, or Hydrologysign, Soil, or Hydrologynat ARY OF FINDINGS - Attach site map station Present? Yes No nt? Yes No nt? Yes No alternative procedures here or in a separate repor nt for wetland 010, in active wheat field. Receive for the forwetland 010, in active wheat field. Receive for the forwetland 010, in active wheat field. Receive for the forwetland of th	Section, T	Section, Township, Range Iterrace, etc.): Hillslope Local relief (concave, con MLRA):LRR R Lat: 42.194776°N	ConnectGEN, LLC James Ireland Section, Township, Range: Town of letrace, etc.): Hillslope Local relief (concave, convex, none): MLRA]:LRR R Lat: 42.194776*N Long: 79.75081 Section Sec	ConnectGEN, LLC James Ireland Section, Township, Range: Town of Ripley Local relief (concave, convex, none): Convex MLRA):LRR	ConnectGEN, LLC James Ireland Section, Township, Range: Town of Ripley Letrace, etc.): Hillslope Local relief (concave, convex, none): Convex MLRA) LRR R Lat: 42.194776"N Long: 79.750818"W Sea Busti sitt loam; 3 to 8 percent slopes ogic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.) X Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) XRY OF FINDINGS – Attach site map showing sampling point locations, transects, important feat tation Present? Yes No X Is the Sampled Area within a Wetland? Yes No It reveals that the sample of the samp	ConnectGEN_LLC James Ireland Section, Township, Range: Town of Ripley Local relief (concave, convex, none): Convex Stope (%): Local relief (concave, convex, none): Convex Stope (%): Long: 79,750818"W Datum: NV BSB-Bust sit loam; 3 to 8 percent slopes Ogic conditions on the site typical for this time of year? Yes X No

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 0010.	Сросиос.	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.		-	-	That Are OBL, I ACW, OF I AC.	(A)
3.		-	-	Total Number of Dominant Species Across All Strata:	1 (B)
4				·	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.					
7.		-	-	Prevalence Index worksheet: Total % Cover of:	Multiply by:
· ·		= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
1				FAC species 0	x 3 = 0
2.				FACU species 0	x 4 = 0
3.				UPL species 100	x 5 = <u>500</u>
4.				Column Totals: 100	(A) <u>500</u> (B)
5.				Prevalence Index = B/A = 5	
6.				Hydrophytic Vegetation Indicato	ors:
7		-	-	1 - Rapid Test for Hydrophyti	
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptation	
· · · · · · · · · · · · · · · · · · ·	100	Vaa	LIDI	data in Remarks or on a s	
Triticum aestivum	100	Yes	UPL	Problematic Hydrophytic Veg	intation ¹ (Evaluin)
2				¹ Indicators of hydric soil and wetla	
3				be present, unless disturbed or pro	•
4					
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardless	
7					-
8				Sapling/shrub – Woody plants les and greater than or equal to 3.28 f	
9				Herb – All herbaceous (non-wood	v) plants regardless of
10.		-		size, and woody plants less than 3	,,,
11		-		Woody vines – All woody vines gr	eater than 3.28 ft in
12				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3.				Present? Yes	Nox
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.))				

Sampling Point: DP-032

SOIL Sampling Point: DP-032 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 4/4 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject		City/Coun	nty: Chauta	auqua County	У	Sampling Date:	Aug 4, 2020
Applicant/Owner:	Connectgen Op	perating LLC					St	tate: NY	Sampling Point:	DP-033
Investigator(s):	James Ireland				Section, To	ownship, Range	: Town	of Ripley		
Landform (hillslope,	, terrace, etc.):	Depression			Local relief	f (concave, conv	vex, none):	Concave	;	Slope (%):1
Subregion (LRR or	MLRA):LRR R				Lat: 42.195413	°N I	Long: 79.75	53235°W		Datum: NAD83
Soil Map Unit Name	e: VoA - Volus	sia channery silt loan	n; <u>0 to :</u>	3 perce	nt slopes			NWI classi	ification: Not Mapp	ped
Are climatic / hydro		on the site typical for			•	x No	o ((If no, explain in	Remarks.)	
-	_	, or Hydrology		-				Circumstances" p		x No
		, or Hydrology			rally problematic?			plain any answe		
							•	•	, important feat	tures, etc.
Hydrophytic Vege	etation Present?	Yes	х	No		Is the Sample	ed Area			
Hydric Soil Prese		Yes	x	- No		within a Wetla		Yes	X No	
Wetland Hydrolog		Yes _	x	_ No		If yes, optiona	al Wetland Sit	te ID: WI	L-010	
HADBOI OCA										
HYDROLOGY								O - son dom.	! !!t (mainimuum	((()) o d
Wetland Hydrolo									Indicators (minimum	of two requirea)
		ne is required; check	all that						Soil Cracks (B6)	
Surface Wat			_		Stained Leaves (E	39)		_	Patterns (B10)	
High Water			_	-	c Fauna (B13)				n Lines (B16)	
Saturation (A	•		_		eposits (B15)	(04)			on Water Table (C2)	
Water Marks			_		gen Sulfide Odor (ad Phizospheres ((C2)	-	Burrows (C8)	2000ru (CQ)
Sediment De Drift Deposit			_		ed Rhizospheres once of Reduced Iro	=	(U3)		n Visible on Aerial Im r Stressed Plants (D	
Algal Mat or			_		t Iron Reduction in		:6)		hic Position (D2)	1)
Iron Deposits			_		luck Surface (C7)	•	0)		equitard (D3)	
	/isible on Aerial Ir	magery (B7)			(Explain in Remar				graphic Relief (D4)	
	egetated Concave	. ,			. 1	-,			tral Test (D5)	
Field Observatio			-	-						
Surface Water Pro	esent?	Yes No	х	Depth	ı (inches):					
Water Table Pres	sent?	Yes No	х	Depth	ı (inches):		Wetland !	Hydrology Pres	sent? Yes x	<u> No</u>
Saturation Preser		Yes No			i (inches):	1				
(includes capillary		gauge, monitoring we	ell aeri	ial photo	os previous inspe	ections) if avails	ahla.			
Describe Notice	zu Dala (stroum s	Jauge, monitoring	EII, acii	lai piiou	JS, PIEVIOUS IIISPO	Kliuris), ii avanc	abic.			
Remarks:						,		,		

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
. Acer rubrum	90	Yes	FAC	Number of Domi That Are OBL, F.		4 (A)
				That Are OBL, 1	ACW, OIT AC.	(A)
2				Total Number of		4 (D)
3.				Species Across /	All Strata.	(B)
4				Percent of Domin		100 (4/0
5				That Are OBL, F.	ACW, OI FAC.	(A/B
5. <u> </u>				Prevalence Inde	ex worksheet:	
7				Total % Co		Multiply by:
	90	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	30	x 2 = 60
. Lindera benzoin	20	Yes	FACW	FAC species	100	x 3 = <u>300</u>
2				FACU species	0	x 4 = 0
				UPL species	0	x 5 = 0
3.				Column Totals:	130	(A) <u>360</u> (B)
l					- Inda - 57	0.70
j.				Prevalenc	e Index = B/A =	2.10
S				Hydrophytic Ve	-	
7.					est for Hydrophy	
	20	= Total Cover		X 2 - Dominar		
erb Stratum (Plot size: 5 ft.)		= Total Cover				ons ¹ (Provide supporting
. Impatiens capensis	10	Yes	FACW			a separate sheet)
				Problematic	- Hydrophytic Va	egetation ¹ (Explain)
. Acer rubrum	10	Yes	FAC			
·						land hydrology must
				be present, unles	ss disturbed or p	orobiematic.
i				Definitions of V	egetation Strat	a:
S				Tree – Woody pl	lants 3 in. (7.6 ci	m) or more in diameter
'. <u> </u>				at breast height ((DBH), regardles	ss of height.
3.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
				and greater than	or equal to 3.28	3 ft (1 m) tall.
10.				Herb - All herba	ceous (non-woo	dy) plants, regardless of
				size, and woody	plants less than	3.28 ft tall.
1					All woody vines	greater than 3.28 ft in
2				height.		
	20	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
				Hydrophytic		
				Vegetation Present?	Yes _	x No
·		T : 10				
	0	= Total Cove	r			

SOIL Sampling Point: DP-033 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 4/4 MS Silty Clay Loam 0-20 30 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sc	olar and Storage Pro	oject	City/Coun	nty: Chauta	uqua County		Sampling Date:	Aug 4, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-034	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of R	Ripley	•	· 	
Landform (hillslope,		Hillslope			f (concave, conv		Convex		Slope (%):	1
Subregion (LRR or	·	Тиногоро				ong: 79.752655			Datum: N A	 AD83
• .	•	-!!! !-om O !	2 :::::nt ala	Lat: 42.193650	-N L	_Orig: 19.102000		" Nat Monr		1000
Soil Map Unit Name		annery silt loam, 0 to					NWI classific		ed	
Are climatic / hydrol	=	• •	-			(If no.	, explain in R	emarks.)		
·		, or Hydrology				re "Normal Circun	nstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	DINGS – Attach	ո site map ։	showing sam	pling point	locations, tr	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetla		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	l Wetland Site ID:	:			
the time of deline	∙ations									_
HYDROLOGY										
Wetland Hydrolo								dicators (minimum	of two require	∍d)
	•	e is required; check					."	l Cracks (B6)		
Surface Wate				-Stained Leaves (E	B9)	_	_	atterns (B10)		
High Water 1			-	ic Fauna (B13)		_	Moss Trim L			
Saturation (A	•			Deposits (B15)		_		Water Table (C2)		
Water Marks				gen Sulfide Odor ((30)	Crayfish Bu		(20)	
Sediment De				ed Rhizospheres	•	(C3)	li .	/isible on Aerial Im		
Drift Deposits Algal Mat or				nce of Reduced Iront Iron Reduction ir		<u> </u>		Stressed Plants (Discovery)	1)	
Iron Deposits				Auck Surface (C7)	-	<u> </u>	Shallow Aqu			
	/isible on Aerial Im	nagery (B7)		(Explain in Remar		_		raphic Relief (D4)		
	egetated Concave			(EXPIGIT III 11011.2.	KO,	_	FAC-Neutra			
Field Observatio								,		
Surface Water Pre		Yes No	x Depth	n (inches):						
Water Table Pres	sent?	Yes No		h (inches):		Wetland Hydr	rology Prese	ent? Yes	No _	x
Saturation Presen	nt?	Yes No								
(includes capillary	y fringe)									
Describe Recorde	ed Data (stream g	gauge, monitoring w	rell, aerial photo	os, previous inspe	ections), if availa	ıble:				
Remarks:										
No wetland hydrolo	ogy observed									

							Point: DP-034	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
1. Tsuga canadensis	70	Yes	FACU	Number of Domi That Are OBL, F			0	(A)
2. Fagus grandifolia	30	Yes	FACU					_` ′
3.				Total Number of Species Across			5	(B)
1				Doroont of Domi	nant Chaoina			
1				Percent of Domi That Are OBL, F			0	_(A/B
						-		
6				Prevalence Inde				
7		T 0		Total % Co			fultiply by:	_
	100	= Total Cover		OBL species		-	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0		0	
1. Fagus grandifolia	20	Yes	FACU	FACU species			500	
2. Quercus rubra	5	Yes	FACU	UPL species	5			
3.				Column Totals:	130	(A)	525	— (B)
4						_ ` '		_ ` ′
5.				Prevalenc	e Index = B/A =	4.03		
6.				Hydrophytic Ve	getation Indica	tors:		
7.				1	est for Hydrophy		etation	
					nce Test is >50%			
	25	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio Remarks or on a			g
. Dennstaedtia punctilobula	5	Yes	UPL		. tomanio or on o	Сорага		
2				Problemation	c Hydrophytic Ve	egetation	n ¹ (Explain)	
3.				¹ Indicators of hy	dric soil and wet	land hyd	drology must	
4				be present, unle	ss disturbed or p	roblema	atic.	
5.				Definitions of V	egetation Strat	a:		
				Tree – Woody p	_		ore in diameter	
5. -				at breast height	-			
/ R				Sapling/shrub -	- Woody plants I	occ than	3 in DRH	
D				and greater than				
D				Herb – All herba	ceous (non-woo	dv) nlan	te regardless	of
10				size, and woody	•		_	Oi
11				Woody vines –	All woody vines	areater t	han 3 28 ft in	
12.				height.	All Woody Villes	greater t	11a11 5.20 It III	
	5	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
2.				Vegetation				
3				Present?	Yes _	'	No <u>x</u>	
4								
	0	= Total Cove	·r					

SOIL Sampling Point: DP-034 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Loam 7.5YR 4/6 10YR 5/1 80 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sc	olar and Storage Project		City/Cour	ity: Chauta	uqua County		Sampling Date:	Aug 4, 20	20
Applicant/Owner:	Connectgen Op	perating LLC				State	: NY	Sampling Point:	DP-035	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of	Riplev	_	<u> </u>	
Landform (hillslope,		Hillslope			(concave, conv		Convex		Slope (%):	1
, ,	. ,	тіпзюре	1						Datum: N	VD83
Subregion (LRR or				t: 42.193179	TN I	_ong: 79.7539				AD03
Soil Map Unit Name	e: <u>VoA - Volusi</u>	ia channery silt loam; 0 t	o 3 percent sl	opes			_ NWI classifi	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions of	n the site typical for this	time of year?	Yes	<u>x</u> No	O (If n	no, explain in R	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significa	ntly disturbed	? A	re "Normal Circ	umstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	naturally	problematic?) (If	needed, explai	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach sit	e map sho	owing sam	pling point	locations, t	transects,	important fea	tures, etc.	•
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No No		within a Wetl		Yes	No:	X	
Wetland Hydrolog		Yes	No		If yes, optiona	I Wetland Site II	D:			
		dures here or in a separa 111. In coniferous fore								
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					_	Secondary In	dicators (minimum	of two requir	ed)
Primary Indicators	s (minimum of one	e is required; check all th	nat apply)				Surface So	il Cracks (B6)		
Surface Wat	ter (A1)		Water-Stai	ned Leaves (I	39)		_ Drainage P	atterns (B10)		
High Water	Table (A2)	_	Aquatic Fa	una (B13)			Moss Trim	Lines (B16)		
Saturation (A	A3)	_	Marl Depos	sits (B15)			_ Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)	_	Hydrogen	Sulfide Odor (C1)		Crayfish Bu	ırrows (C8)		
Sediment De	eposits (B2)	_	Oxidized R	Rhizospheres	on Living Roots	(C3)	Saturation '	Visible on Aerial Im	nagery (C9)	
Drift Deposit	ts (B3)	_	Presence of	of Reduced Ire	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent Iro	n Reduction in	n Tilled Soils (C	6)	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)	_	_ Thin Muck	Surface (C7)		_	Shallow Aq	uitard (D3)		
Inundation V	isible on Aerial In	magery (B7)	Other (Exp	olain in Remar	ks)	_	Microtopog	raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				_	FAC-Neutra	al Test (D5)		
Field Observatio	ons:									
Surface Water Pre	esent?	Yes Nox								
Water Table Pres	ent?	Yes No x				Wetland Hyd	drology Prese	ent? Yes	No	х
Saturation Preser	nt?	Yes No x	Depth (inc	ches):						
(includes capillary	<u> </u>									
Describe Records	ed Data (stream g	gauge, monitoring well, a	erial photos, p	orevious inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	ogy observed									

							Point: DP-035	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
1. Tsuga canadensis	85	Yes	FACU	Number of Domi That Are OBL, F			0	(A)
Fagus grandifolia	20	No	FACU	111017110 052, 1	7.017, 0117.0.			_(' ')
3				Total Number of Species Across			1	(B)
·				Opedies / toross	Till Ottata.		<u> </u>	_(D)
4.				Percent of Domi That Are OBL, F			0	(A/B
5				That Allo OBE, T	7.017, 0117.0.		-	_(/ (/)
6				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	M	ultiply by:	_
	105	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
1				FAC species	0	x 3 =	0	
2.				FACU species	105	x 4 =	420	
				UPL species	0	x 5 =	0	_
3				Column Totals:	105	(A)	420	(B)
4				Drovolono	e Index = B/A =	1		
5								
S				Hydrophytic Ve	_			
7					est for Hydrophy nce Test is >50%		ation	
	0	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)				l ——	logical Adaptatio		vide supportin	g
1. <u> </u>				data in	Remarks or on a	separate	sheet)	
				Problematic	- Hydronhytic Ve	enetation ¹	(Evolain)	
2.								
3.				¹ Indicators of hy be present, unle				
1.				be present, unie	as disturbed or p	лоыетта		
5				Definitions of V	egetation Strat	a:		
6				Tree – Woody p	lants 3 in. (7.6 cr	m) or moi	e in diameter	
7				at breast height	(DBH), regardles	ss of heig	ht.	
3				Sapling/shrub -	- Woody plants le	ess than	3 in. DBH	
9.		'		and greater than	or equal to 3.28	3 ft (1 m)	tall.	
10.				Herb – All herba	iceous (non-woo	dy) plant	s, regardless	of
				size, and woody	plants less than	3.28 ft ta	II.	
11				Woody vines -	All woody vines	greater th	an 3.28 ft in	
12				height.				
	0	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
·								
				Hydrophytic				
				Vegetation Present?	Yes _	N	o <u>x</u>	
				110001111	.00			
1.								
	0	= Total Cove	r					

SOIL Sampling Point: DP-035 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR2/1 100 Loam Organic material 10 YR 5/8 10YR 3/4 90 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No wetland hydrology observed

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 4, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				Stat	te: NY	Sampling Point:	DP-036	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town o	of Ripley	_		
Landform (hillslope,		Depression			f (concave, con		Concave	,	Slope (%):	1
, , ,		Боргоос.с			•	•			Datum: NA	 AD83
Subregion (LRR or I		b mu oilt loon	0 +- 0 mares	Lat: 42.193655°	TN L	Long: 79.7531		' See: Not Many		1000
Soil Map Unit Name		a channery silt loam					NWI classif		pea	
Are climatic / hydrol	ū	**	•				no, explain in F			
·		, or Hydrology	· ·			re "Normal Circ	cumstances" pi	resent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, expla	ain any answers	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations,	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	X No		within a Wetl		Yes	<u>x</u> No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site	ID: 011			
HYDROLOGY										
Wetland Hydrolo	oay Indicators:						Secondary I	ndicators (minimum	of two require	ed)
		e is required; check	all that apply)	ı		-	-	oil Cracks (B6)	<u> </u>	,
Surface Water	•	10 12 72 117		-Stained Leaves (E	 B9)			Patterns (B10)		
x High Water 1				ic Fauna (B13)	,	_	_	Lines (B16)		
x Saturation (A	A3)			Deposits (B15)		_	Dry-Seaso	n Water Table (C2))	
Water Marks	s (B1)		x Hydrog	gen Sulfide Odor ((C1)	_	Crayfish B	urrows (C8)		
Sediment De	eposits (B2)		Oxidize	ed Rhizospheres o	on Living Roots	(C3)	Saturation	Visible on Aerial Im	nagery (C9)	
Drift Deposits	.s (B3)		Preser	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or				nt Iron Reduction in	•	6)		ic Position (D2)		
Iron Deposits	, ,			Muck Surface (C7)		_	_	quitard (D3)		
l 	/isible on Aerial Im		Other ((Explain in Remark	ks)			graphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)					x FAC-Neutr	al Test (D5)		
Field Observatio			5							
Surface Water Pre		Yes No _		•		W-4amal Us	landa wa Dunn	Ven	N-	
Water Table Present		Yes x No		h (inches): 6		Wetland hy	ydrology Pres	ent? Yes <u>></u>	<u>x</u> No _	—
Saturation Present (includes capillary		Yes x No	Бериі	h (inches): 4						
, ,		auge, monitoring we	ell, aerial phot	os, previous inspe	ections), if availa	able:				
	•		•	•	•					
Remarks:										

							Point: DP-036	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer rubrum	85	Yes	FAC	Number of Domi That Are OBL, F			3	(A)
2. Tsuga canadensis	15	No	FACU		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_(' ')
3				Total Number of Species Across			3	(B)
								()
4				Percent of Domin			100	(A/B
5				,	- ,			_(-,-
S				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	N	lultiply by:	_
	100	= Total Cover		OBL species	0	-	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	90			_
Lindera benzoin	30	Yes	FACW	FAC species	85	_'	255	_
2.				FACU species	15	•		_
3.				UPL species	0	x 5 =		
4.				Column Totals:	190	_ (A)	495	(B
				Prevalenc	e Index = B/A =	2.60		
5								
6	· ·			Hydrophytic Ve	egetation Indica est for Hydrophy		tation	
, <u> </u>				X 2 - Dominai			iation	
	30	= Total Cover		X 3 - Prevaler				
erb Stratum (Plot size: 5 ft.)					logical Adaptatio			g
. Onoclea sensibilis	60	Yes	FACW	data in I	Remarks or on a	separat	e sheet)	
2.				Problemation	c Hydrophytic Ve	egetation	¹ (Explain)	
3.				¹ Indicators of hy				
				be present, unles				
4. -				D. C. W				
). 				Definitions of V	_			
S				Tree – Woody pl	,	,		
7				at breast height	(DBH), regardles	ss or rier	grit.	
B				Sapling/shrub -				
Э				and greater than	•			
10				Herb – All herba				of
11.				size, and woody				
12.				Woody vines – height.	All woody vines	greater t	han 3.28 ft in	
		= Total Cover		noight.				
(60	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
·				Hydrophytic				
2.				Vegetation				
3				Present?	Yes _	<u>x</u> 1	No	
4.								
	0	= Total Cove	 r					

SOIL Sampling Point: DP-036 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 10YR 5/8 10YR 5/1 55 Clay 7.5YR 4/4 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

South Ripley So	lar and Storage Proje	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 4, 202	20
Connectgen Ope	erating LLC				State	e: NY	Sampling Point:	DP-037	
James Ireland			Section, To	ownship, Range	E: Town of	Riplev	•		
	Hillslope			-				Slone (%):	2
•	Тиногоро			•	,	1			
	<u> </u>		Läli 42.131040	- IN	LONG: 19.1000		2 Not Many		AD00
•						_		ped	
-		-			o (It n	io, explain in R	emarks.)		
					re "Normal Circu	umstances" pr	esent? Yes	<u>x</u> No)
, Soil	, or Hydrology	natur	rally problematic?	? (I	f needed, explain	n any answers	in Remarks.)		
ARY OF FIND	INGS – Attach s	ite map s	showing sam	pling point	: locations, t	ransects,	important feat	tures, etc.	•
etation Present?	Yes	No	X	Is the Sample	ed Area				
ent?	Yes	No	х			Yes	No	x	
gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site If	D:			_
						Secondary Ir	dicators (minimum	of two requir	ed)
	is required; check all	I that apply)			_	-	· · · · · · · · · · · · · · · · · · ·	010	00,
iter (A1)	13 roquirou, cco		Stained Leaves (B9)		_			
Table (A2)	-	_	•	50,	_	_			
(A3)	-	-			_)	
s (B1)	=			(C1)	_				
eposits (B2)		Oxidize	d Rhizospheres	on Living Roots	(C3)	Saturation '	Visible on Aerial Im	nagery (C9)	
its (B3)		Presen	ce of Reduced In	on (C4)	_	_ Stunted or	Stressed Plants (D)1)	
r Crust (B4)	,	Recent	Iron Reduction in	n Tilled Soils (C	.6)	_ Geomorphi	c Position (D2)		
ts (B5)					_				
	• , , ,	Other (Explain in Remar	rks)	_				
getated Concave S	Surface (B8)					_ FAC-Neutra	al Test (D5)		
ons:									
									
					Wetland Hyd	drology Prese	nt? Yes	No _	<u> x</u>
	Yes No	x Deptn	(inches):	Ī					
· · · ·	auge, monitoring well.	aerial photo	ns, previous inspe	ections), if avails	able:				
74 2 4 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	, , , , , , , , , , , , , , , , , , ,	done. p	0, p. 0	, , , , , , , , , , , , , , , , , , ,	20.0.				
ogy observed									
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ogy observed									
ogy observed									
ogy observed									
ogy observed									
ogy observed									
ogy observed									
	Connectgen Ope James Ireland terrace, etc.): MLRA):LRR R e: As - Allis silt logic conditions on , Soil , Soil ARY OF FINDI etation Present? nt? gy Present? alternative procedt for Wetland 01 Table (A2) A3) 6 (B1) eposits (B2) s (B3) Crust (B4) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) crust (B4) s (B5) s (B5) rigidated Concave S ins: esent? ent?	Connectgen Operating LLC James Ireland terrace, etc.): Hillslope MLRA):LRR R e: As - Allis silt loam logic conditions on the site typical for thi, Soil, or Hydrology, Soil, Soil	James Ireland terrace, etc.): Hillslope MLRA):LRR R e: As - Allis silt loam logic conditions on the site typical for this time of year	Connectgen Operating LLC James Ireland Section, Total Interrace, etc.): Hillslope Local reliev MLRA):LRR R Lat: 42.191545 Section, Total Interrace, etc.): Hillslope Local reliev MLRA):LRR R Lat: 42.191545 Section, Total Interrace, etc.): Hillslope Local reliev MLRA):LRR R Lat: 42.191545 Section, Total Interrace, etc.): Lat: 42.191545 Section Present Interrace Intervace Interrace Interrace Interrace Interrace Intervace Interv	Connectgen Operating LLC James Ireland Section, Township, Range Letrace, etc.): Hillslope Local relief (concave, con MLRA):LRR R Lat: 42.191545°N Signature of year? Yes Significantly disturbed? ARY OF FINDINGS — Attach site map showing sampling point station Present? Yes No X Is the Sample within a Wett yes No X If yes, optiona atternative procedures here or in a separate report.) It for Wetland 012. In coniferous/deciduous forest area. Top of slope. Pagy Indicators: Signimimum of one is required; check all that apply) For (A1) Water-Stained Leaves (B9) Augustic Fauna (B13) August	Connectgen Operating LLC James Ireland Section, Township, Range: Town of terrace, etc.): Hillslope Local relief (concave, convex, none): MLRA):LRR R Lat: 42.191545*N Long: 79.7539 As - Allis silt loam logic conditions on the site typical for this time of year? Yes Soil, or Hydrology significantly disturbed? Are "Normal Circ. ARY OF FINDINGS – Attach site map showing sampling point locations, to station Present? Yes No Is the Sampled Area within a Wetland? alternative procedures here or in a separate report.) It for Wetland 012. In coniferous/deciduous forest area. Top of slope. Top yindicators: Signinimum of one is required; check all that apply) er (A1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Again Deposits (B15) Again Deposits (B15) Again Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Signinimum of C(4) Presence of Reduced Iron (C4) Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Signible on Aerial Imagery (B7) Other (Explain in Remarks) gestated Concave Surface (B8) Ins: Besent? Yes No Depth (inches): Wetland Hye Wetland Byte (A1) Wetland Byte (A2) A Depth (inches): Wetland Hye Wetland Byte (A2) A Available:	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Lerrace, etc.): Hillslope Local relief (concave, convex, none): Concave MLRA):LRRR Lat: 42.191545*N Long: 79.753986*W E: As - Allis silt loam Ogic conditions on the site typical for this time of year? Yes Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" principal in Research of Hydrologysolid in Research of Hydrologysolid, solid, or Hydrologysignificantly disturbed? ARY OF FINDINGS - Attach site map showing sampling point locations, transects, in the sample of the sample o	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Lerrace, etc.): Hillslope Local relief (concave, convex, none): Concave MLRA)-LRR R Lat: 42.191545*N Long: 79.753986*W NWI classification: Not Mapy logic conditions on the site typical for this time of year? Yes As - Allis sill toam: Or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) ARY OF FINDINGS - Attach site map showing sampling point locations, transects, important feat within a Wetland? Yes No X Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: alternative procedures here or in a separate report.) It or Wetland 012. In confiderous/deciduous forest area. Top of slope. Total (A1) Water-Stained Leaves (B9) Totale (A2) Aquatic Fauna (B13) Mas Deposits (B15) Dy-Season Water Table (C2) Craylish Burrows (C8) Suturdeo Soil Cracks (B6) Presence of Reduced fron (C1) Craylish Burrows (C8) Sutured or Stressed Plants (C1) Sutured or Stressed Plants (C1) Significantion (D2) Shallow Aquation (D3) Significantion Remarks.) Microtopographic Relief (D4) Significantion Remarks.) Microtopographic Relief (D4) FAC-Neutral Test (D5) Inside on Aerial Imagery (B7) Other (Explain in Remarks) Methand Hydrology Present? Yes Wetland Hydrology Present? Yes Microtopographic Relief (D4) FAC-Neutral Test (D5) Inside on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Inside on Aerial Imagery (B7) Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes Microtopographic Relief (D4) FAC-Neutral Test (D5)	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Letrace, etc.): Hillistope Local relief (concave, convex, none): Concave Slope (%): MLRA): LRR R Lat: 42:191545'N Long: 79.753986'W Datum N As - Allis sill Islam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam logic conditions on the site typical for this time of year? Yes As - Allis sill loam NNI classification: Not Mapped (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes x No X Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland? Yes No X If yes, optional Wetland Site ID: Surface Soil Cracks (Be) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (B10) Assortion Lines (B16) Drainage Patterns (

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
Acer saccharum	80	Yes	FACU	Number of Domin		1 (A)
2. Tsuga canadensis	20	Yes	FACU			
3.				Total Number of Species Across A		4 (B)
·-						(5)
4				Percent of Domir That Are OBL, F		25 (A/B)
5				1110(7110 052, 17	71077, 01 1 710.	(/////
6				Prevalence Inde	ex worksheet:	
7				Total % Cov	ver of:	Multiply by:
	100	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	30	x 2 = <u>60</u>
1. Fraxinus pennsylvanica	30	Yes	FACW	FAC species	0	x 3 = 0
2.				FACU species	140	x 4 = <u>560</u>
				UPL species	0	x 5 = 0
3	-			Column Totals:	170	(A) <u>620</u> (B)
4				Describe	o Index D/A	2.64
5				Prevalence	e Index = B/A =	3.04
6				Hydrophytic Ve	=	
7					est for Hydrophy	
	30	= Total Cover			nce Test is >509 nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)		= Total Cover		_		ons ¹ (Provide supporting
Rubus allegheniensis	40	Yes	FACU			a separate sheet)
		165	TACO	Dankla as atio	- 1 locales a location 1/1	
2						egetation ¹ (Explain)
3						tland hydrology must
1				be present, unles	ss disturbed or p	problematic.
5				Definitions of V	egetation Strat	a:
6				Tree – Woody pl	ants 3 in. (7.6 c	m) or more in diameter
7				at breast height ((DBH), regardles	ss of height.
3.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
				and greater than		
				Herb – All herba	ceous (non-woo	ody) plants, regardless of
10				size, and woody		
11				Woody vines – /	All woody vines	greater than 3.28 ft in
12				height.		9
	40	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
-						
				Hydrophytic		
2.				Vegetation		
3				Present?	Yes _	Nox
4		= Total Cove	_			

SOIL Sampling Point: DP-037 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 80 10YR 4/6 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Pro	ject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 4, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				Sta	ate: NY	Sampling Point:	DP-038	
Investigator(s):	James Ireland			Section, To	ownship, Range	=: Town	of Ripley	_		
Landform (hillslope,		Depression			f (concave, con	-	Concave	,	Slope (%):	1
Subregion (LRR or N	·	Боргоссия		Lat: 42191492°	•	Long: -79.75			Datum: NA	 AD83
• ,	•			Lal. 42131432	IN L	Long19.10		" " Net Man		1000
Soil Map Unit Name							NWI classif		ped	
Are climatic / hydrolo	=		-			o (l	If no, explain in I	Remarks.)		
		, or Hydrology				re "Normal Ci	ircumstances" p	resent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	? (If	f needed, expl	lain any answer	s in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point	locations	, transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No	,	Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No	-	If yes, optiona	al Wetland Site	e ID: 012	2		
HYDROLOGY										
	· · I1! atawa.						O andam / l	"t (minimum	China no mulas	1\
Wetland Hydrolog				-				ndicators (minimum	of two require	∌d)
		e is required; check						oil Cracks (B6)		
X Surface Water				r-Stained Leaves (E	39)			Patterns (B10)		
X High Water T				tic Fauna (B13)		•		Lines (B16)		
X Saturation (A X Water Marks	· ·			Deposits (B15) ogen Sulfide Odor ((C1)			on Water Table (C2) Surrows (C8)		
Sediment De				zed Rhizospheres o		: (C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposits			_	ence of Reduced Iro	· ·	(00)		Stressed Plants (D		
Algal Mat or			_	nt Iron Reduction in	` '	:6)		nic Position (D2)	•,	
Iron Deposits				Muck Surface (C7)	•	•		quitard (D3)		
Inundation Vi	isible on Aerial Im	agery (B7)	Other	(Explain in Remark	·ks)		x Microtopog	graphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)	· <u></u>			,	x FAC-Neutr	ral Test (D5)		
Field Observation	ns:									
Surface Water Pre		Yes x No								
Water Table Prese		Yes x No		n (inches): 0		Wetland H	Hydrology Pres	ent? Yes	<u>x</u> No _	
Saturation Present		Yes x No	Dept	h (inches): 0						
(includes capillary	<u> </u>	auge, monitoring we	oll parial pho	too provinus inspe	otions) if avails	abla:				
Describe Records	U Dala (Siream yo	luge, monitoring we	ili, atriai prio	.05, previous mapo	Kliuris), ii avaiic	able.				
Remarks:										

								ŀ
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer rubrum	85	Yes	FAC	Number of Domi That Are OBL, F.			3	(A)
2. Tsuga canadensis	15	No	FACU					_(' ')
3.				Total Number of Species Across			3	(B)
							-	_(_)
				Percent of Domin			100	(A/B
i				matric obe, i	7,077, 01 1 7,0.		100	_(^/D
S				Prevalence Inde	ex worksheet:			
·				Total % Co		Mul	tiply by:	_
	100	= Total Cover		OBL species	0	x 1 = 0	1	
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species	110	x 2 = 2	20	
				FAC species	85	x 3 = 2	55	_
				FACU species	15	x 4 = 6	0	_
•				UPL species	0	x 5 = 0	1	
•				Column Totals:	210	(A) <u>5</u>	535	_ (B)
						0.54		
				Prevalenc	e Index = B/A =	2.54		
i				Hydrophytic Ve	_			
					est for Hydrophy		tion	
		T-4-1 O		X 2 - Dominar X 3 - Prevaler				
orb Stratum (Plot size: 5 ft.)	0	= Total Cover			ogical Adaptatio		de supportin	7
·		v	54014		Remarks or on a			9
Impatiens capensis	30	Yes	FACW			. 1		
Onoclea sensibilis	80	Yes	FACW	Problematio	: Hydrophytic Ve	egetation' ((Explain)	
·				¹ Indicators of hydronic		-		
				be present, unles	ss disturbed or p	oroblemation	.	
i				Definitions of V	egetation Strat	a:		
S				Tree – Woody pl	ants 3 in. (7.6 ci	m) or more	in diameter	
				at breast height (•	•		
·				Sapling/shrub -	- Woody plants I	ace than 3	in DRH	
				and greater than				
l				Herb – All herba	coous (non woo	du) plants	rogardloss	of.
0				size, and woody)i
1				Woody vines –				
2				height.	All woody villes	greater tha	11 3.20 11 111	
	110	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)		•						
				Hydrophytic				
				Vegetation				
				Present?	Yes _	X No		
	0	= Total Cove	r					
				•				

SOIL Sampling Point: DP-038 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 10YR 5/1 70 7.5 YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Pro	ject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State:	: NY	Sampling Point:	DP-039	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, con		Concave		Slope (%):	2
	•	Dopression		Lat: 42.188150	•	·			Datum: NA	
Subregion (LRR or I	•			Lat: 42.100100	<u>"N</u>	Long: 79.75414			Datum. 1 v	1000
Soil Map Unit Name							NWI classific			
Are climatic / hydrole	-	• •	-			o (If no	o, explain in R	emarks.)		
·		, or Hydrology				Are "Normal Circu	ımstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natı	urally problematic?	? (If	f needed, explain	າ any answers	in Remarks.)		
SUMMA	RY OF FIND	INGS – Attach	site map	showing sam	pling point	: locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site ID	D: 013			
HYDROLOGY										
Wetland Hydrolo	nv Indicators:						Secondary In	dicators (minimum	of two require	ed)
		e is required; check	all that apply)	ı			-	il Cracks (B6)	Or two rogans	<i>50)</i>
Surface Water		ris required, orioux		-Stained Leaves (E	R9)	X	-	atterns (B10)		
× High Water T				ic Fauna (B13)	55,	_^_	_	Lines (B16)		
× Saturation (A				Deposits (B15)			_	n Water Table (C2))	
x Water Marks	•			gen Sulfide Odor ((C1)	_	Crayfish Bu	•		
Sediment De				ed Rhizospheres		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)	<u> </u>	Stunted or	Stressed Plants (D	11)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction ir	n Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
l —	isible on Aerial Im		Other	(Explain in Remar	ks)	X	_	raphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)				X	_ FAC-Neutra	al Test (D5)		
Field Observation										
Surface Water Pre		Yes No _					_			
Water Table Prese		Yes x No		h (inches): 8		Wetland Hyd	Irology Prese	ent? Yes <u> </u>	<u>x No</u>	
Saturation Presen (includes capillary		Yes x No	Depth	h (inches): 7						
<u> </u>		auge, monitoring we	ell aerial phot	tos, previous inspe	ections), if availa	able:				
	4 1 2 2 2 2 3 3 5 5	24g-, J	, , , , , , , , , , , , , , , , , , ,	,	, ou,					
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer rubrum	60	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5	(A)
2. Quercus rubra	20	Yes	FACU		(/ ./
				Total Number of Dominant Species Across All Strata: 6	(B)
					(-/
				Percent of Dominant Species That Are OBL, FACW, or FAC: 83	(A/B
5					
S				Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
	80	= Total Cover		OBL species 40 x 1 = 40	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{85}{110}$ $x = \frac{170}{2}$ FAC species	
. Acer rubrum	30	Yes	FAC	FACU species 20 x 4 = 80	
Lindera benzoin	40	Yes	FACW	$\begin{array}{cccc} & & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & $	
				Column Totals: 255 (A) 620	(B)
				<u> </u>	(=)
i.				Prevalence Index = B/A = 2.43	
5.				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
Chrotium (Diet sine) F ft.)	70	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide support	rtina
brb Stratum (Plot size: 5 ft.)				data in Remarks or on a separate sheet)	rung
. Carex crinita	40	Yes	OBL	1	
Osmundastrum cinnamomeum	25	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
d. Onoclea sensibilis	20	No	FACW	¹ Indicators of hydric soil and wetland hydrology mus	t
. Solidago rugosa	20	No	FAC	be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
S				Tree - Woody plants 3 in. (7.6 cm) or more in diame	ter
				at breast height (DBH), regardless of height.	
3.				Sapling/shrub – Woody plants less than 3 in. DBH	
)				and greater than or equal to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (non-woody) plants, regardles	ss of
11.				size, and woody plants less than 3.28 ft tall.	
				Woody vines – All woody vines greater than 3.28 ft i	n
2				height.	
	105	= Total Cover			
oody Vine Stratum (Plot size: 30 ft.)					
·				Undrankudia	
				Hydrophytic Vegetation	
				Present? Yes <u>X</u> No	_
1	<u> </u>				
	0	= Total Cove	r		

SOIL Sampling Point: DP-039 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 10YR 4/4 10YR 5/1 60 Clay 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 4 No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Cour	nty: Chauta	uqua County		Sampling Date:	Aug 5, 20	20
Applicant/Owner:	Connectgen Op	perating LLC				State	e: NY	Sampling Point:	DP-040	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range:	: Town of	Ripley	_		
Landform (hillslope		Hillslope		Local relie	ef (concave, conv		Convex		Slope (%):	2
Subregion (LRR or				Lat: 42.188494	•	ong: 79.7541			Datum: N	
- '	-	:-Id Dook outeren ov	- ~ rolling		† IN _	.011g. 70.701		:::-ation: Not Man		,
Soil Map Unit Name		ield-Rock outcrop co			NI		_ NWI classi		peu	
•	-	n the site typical for	·		X No		no, explain in			
Are Vegetation _	, Soil	, or Hydrology				re "Normal Circ	umstances" p	resent? Yes	<u> </u>)
Are Vegetation _	, Soil	, or Hydrology	nati	urally problematic	? (If	needed, explai	n any answe	rs in Remarks.)		
SUMM	ARY OF FIND	DINGS – Attach	site map	showing sam	npling point	locations, t	transects,	, important fea	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	X	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No		within a Wetla		Yes	No	<u>x</u>	
Wetland Hydrolo		Yes _	No		If yes, optional	l Wetland Site II	D:			
		dures here or in a se 013. On hillslope in			est.					
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:					_	Secondary	Indicators (minimum	of two requir	ed)
Primary Indicator	rs (minimum of one	e is required; check	all that apply)			Surface S	oil Cracks (B6)		
Surface Wa	iter (A1)		Water	r-Stained Leaves ((B9)	_	Drainage	Patterns (B10)		
High Water	Table (A2)		Aquat	ic Fauna (B13)		_	_ Moss Trim	n Lines (B16)		
Saturation (A3)		Marl D	Deposits (B15)		_	_ Dry-Seaso	on Water Table (C2))	
Water Mark	s (B1)		Hydro	gen Sulfide Odor	(C1)	_	_ Crayfish B	Burrows (C8)		
	eposits (B2)			zed Rhizospheres	=	(C3)	Saturation	No Visible on Aerial Im	nagery (C9)	
Drift Deposi			Prese	nce of Reduced In	ron (C4)	_		r Stressed Plants (D)1)	
Algal Mat or	* *			nt Iron Reduction in	•	3)		hic Position (D2)		
Iron Deposit				Muck Surface (C7)		_	_ Shallow A	quitard (D3)		
	Visible on Aerial In		Other	(Explain in Remai	rks)	_		graphic Relief (D4)		
Sparsely Ve	egetated Concave	Surface (B8)					FAC-Neut	tral Test (D5)		
Field Observation			_							
Surface Water Pr		Yes No								
Water Table Pres		Yes No				Wetland Hyd	drology Pres	sent? Yes	No _	Х
Saturation Preser		Yes No	x Dept	h (inches):						
(includes capillar		gauge, monitoring we	ell aerial nho	tos previous inspe	ections) if availa	phle:		 		-
Docombo (Coord	od Data (otrodin g	,aago, mormoring w	on, aonai prio	ioo, provious inspe	oonono), ii avana	DIO.				
Remarks:										
No wetland hydrolo	ogy observed									

						·
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
1. Fagus grandifolia	70	Yes	FACU	Number of Domi That Are OBL, F		2 (A)
2. Magnolia macrophylla	15	No	UPL			
3. Prunus serotina	20	No	FACU	Total Number of Species Across		5(B)
4				Percent of Domi	nant Species	
5				That Are OBL, F	ACW, or FAC:	(A/B
6				Prevalence Inde	av workshoot:	
7				Total % Co		Multiply by:
	105	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	5	x 2 = 10
I. Fagus grandifolia	20	Yes	FACU	FAC species	15	x 3 = 45
2. Fraxinus pennsylvanica		Yes	FACW	FACU species	160	x 4 = <u>640</u>
				UPL species	15	x 5 = <u>75</u>
3.				Column Totals:	195	(A) <u>770</u> (B)
l. -				Prevalenc	ce Index = B/A =	3.94
5				Hydrophytic Ve	actation Indian	toro
S				1 ' ' '	est for Hydrophy	
					nce Test is >50%	
	25	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting
. Lycopodium dendroideum	40	Yes	FACU	data in l	Remarks or on a	a separate sheet)
. Crataegus crus-galli	15	Yes	FAC	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
s. Prunus serotina	10	No	FACU	¹ Indicators of hy	dric soil and wet	tland hydrology must
				be present, unle	ss disturbed or p	problematic.
4				Definitions of V	legetation Strat	a·
o					_	
). -				at breast height	· ·	m) or more in diameter
<u> </u>				_		_
3.				and greater than		ess than 3 in. DBH 3 ft (1 m) tall.
D					•	ody) plants, regardless of
10				size, and woody		
11				Woody vines –	All woody vines	greater than 3.28 ft in
12				height.		•
	65	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
•						
2				Hydrophytic		
				Vegetation		
3.				Present?	Yes _	Nox
l						
	0	= Total Cove	r			

SOIL Sampling Point: DP-040 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 85 7.5YR 4/4 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Projec	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-041	
Investigator(s):	Jimmy Ireland			Section, T	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			ef (concave, con		Convex		Slope (%):	3
	•				•					
Subregion (LRR or I		LRR R		Lat: 42.188601	°N	Long: 79.75334			Datum: N	ADOS
Soil Map Unit Name	e: CkC - Chatfie	eld-Rock outcrop com	plex; rolling	<u> </u>			NWI classific		oed	
Are climatic / hydrol	logic conditions or	n the site typical for thi	is time of ye	ar? Yes	X No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	j? ^	Are "Normal Circu	mstances" pre	esent? Yes	<u>x</u> No	,
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic	? (1	lf needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	ite map	showing sam	npling point	locations, tr	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area	_		_	
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID) :			l
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Secondary In	dicators (minimum	of two require	ed)
		e is required; check all	I that apply)	ı		-	-	il Cracks (B6)	0	50,
Surface Water	•	10 roquirou, criscit		-Stained Leaves (I			_	atterns (B10)		
High Water 1		-		ic Fauna (B13)	,50,	-	-	Lines (B16)		
Saturation (A		-		Deposits (B15)			_	n Water Table (C2)	1	
Water Marks	·	-		gen Sulfide Odor ((C1)		Crayfish Bu			
Sediment De	eposits (B2)		Oxidiz	ed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	:s (B3)	п	Preser	nce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	u.	Recen	nt Iron Reduction in	n Tilled Soils (C	(6)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)	1		Shallow Aq			
	isible on Aerial Im		Other of	(Explain in Remar	rks)	_	=	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes No				İ				
Water Table Pres		Yes No		h (inches):		Wetland Hyd	rology Prese	ent? Yes	No	Х
Saturation Presen		Yes No	x Depth	ı (inches):		İ				
(includes capillary		auge, monitoring well,	acrial phot	too provious insp	cotions) if avail	able:				
Describe Necorde	10 Dala (Sileani ya	auge, monitoring wen,	aenai piioi	os, previous irispe	ecuons), n avam	abie:				
Remarks:										
No wetland hydrolo	gy observed									

							1
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes			
I. Prunus serotina	50	Yes	FACU	Number of Domi That Are OBL, F		0	(A)
2. Acer saccharum	50	Yes	FACU				_` ′
3.				Total Number of Species Across		6	(B)
							_` ′
.				Percent of Domi That Are OBL, F		0	(A/B)
5.							
5				Prevalence Inde			
7		Tatal Causes		Total % Co		Multiply by:	_
U (01 1 01 1 (01 1 1 1 1 1 1 1 1 1 1 1 1	100	= Total Cover		OBL species		x 1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	x 2 = 0 x 3 = 0	
Hamamelis virginiana	20	Yes	FACU	FACU species	175		
2. Acer saccharum	15	Yes	FACU	UPL species	0		
3.				Column Totals:	175	(A) 700	(B)
4							_ ` ′
5.				Prevalenc	e Index = B/A =	4	
6.				Hydrophytic Ve	getation Indica	tors:	
7				1 - Rapid T	est for Hydrophy	tic Vegetation	
					nce Test is >50%		
erb Stratum (Plot size: 5 ft.)	35	= Total Cover			nce Index is ≤3.0	ວ່ ກາຣ ¹ (Provide supportin	a
			54011			a separate sheet)	g
Prunus serotina	30	Yes	FACU			1	
2. Quercus rubra	10	Yes	FACU	1.		egetation ¹ (Explain)	
3.				-		tland hydrology must	
4				be present, unle	ss disturbed or p	oroblematic.	
5				Definitions of V	egetation Strat	a:	
6				Tree – Woody p	lants 3 in. (7.6 ci	m) or more in diameter	
7				at breast height	(DBH), regardles	ss of height.	
8				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH	
9.				and greater than	or equal to 3.28	3 ft (1 m) tall.	
10.						ody) plants, regardless	of
				size, and woody	plants less than	3.28 ft tall.	
11.					All woody vines	greater than 3.28 ft in	
12				height.			
	40	= Total Cover					
/oody Vine Stratum (Plot size: 30 ft.)							
•							
2.				Hydrophytic Vegetation			
3.				Present?	Yes _	Nox	
4.							
	0	= Total Cove	r				
			•	ı			

SOIL Sampling Point: DP-041 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) Texture Remarks 10YR 4/4 10YR 3/2 MS Silt Loam 0-20 7.5YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sola	ar and Storage Proje	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 5, 2020
Applicant/Owner:	Connectgen Oper					State:	NY	Sampling Point:	DP-042
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	: Town of R	Riplev	•	
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%): 1
	·			,	•	, ,			Datum: NAD83
Subregion (LRR or N	•	LRR R		Lat: 42.188812	N i	Long: 79.752772			
Soil Map Unit Name		ck loamy fine sand;					NWI classific		ed
Are climatic / hydrolo	ogic conditions on	the site typical for th	is time of year	ar? Yes	XNo	o (If no	o, explain in R	temarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	? A	re "Normal Circur	mstances" pre	esent? Yes	x No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, explain	any answers	in Remarks.)	
SUMMA	RY OF FINDI	NGS – Attach s	ite map s	showing sam	pling point	locations, tr	ransects,	important feat	tures, etc.
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area			
Hydric Soil Preser			x No		within a Wetl		Yes	x No	<u></u>
Wetland Hydrolog		Yes			If yes, optiona	l Wetland Site ID	014		
HYDROLOGY									
Wetland Hydrolog	av Indicators:						Secondary In	dicators (minimum	of two required)
		is required; check all	! that annly)				-	·	Of two required,
x Surface Wate		is required; check all		Stained Leaves (I	Ra)		•	il Cracks (B6) atterns (B10)	
x High Water T				c Fauna (B13)	D8)	<u>X</u>	•	Lines (B16)	
× Saturation (A		•		eposits (B15)		_	•	n Water Table (C2)	
× Water Marks	•	•		gen Sulfide Odor ((C1)	_	Crayfish Bu		
Sediment De		•		ed Rhizospheres		(C3)	•	Visible on Aerial Im	ladery (C9)
Drift Deposits		•		ice of Reduced Ire	•	(63)	•	Stressed Plants (D	
Algal Mat or		•		t Iron Reduction in		6) x	•	c Position (D2)	-,
Iron Deposits		•		uck Surface (C7)	,		Shallow Aq	-	
I —	isible on Aerial Ima	agery (B7)		Explain in Remar		X	•	raphic Relief (D4)	
	getated Concave S	• • • •	_	•	•		FAC-Neutra		
Field Observation					I		-		
Surface Water Pre	esent?	Yes <u>x</u> No	Depth	(inches): 6					
Water Table Prese		Yes x No				Wetland Hydi	rology Prese	ent? Yes x	No
Saturation Present		Yes x No							
(includes capillary	fringe)				j				
Describe Recorde	d Data (stream gau	uge, monitoring well,	, aerial photo	os, previous inspe	ections), if availa	able:			
Remarks:									
Nomane.									

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:	
I. Fagus grandifolia		Yes	FACU	Number of Domin That Are OBL, FA		5 (A)
2.				matric OBE, 17	1011, 011710.	(/1)
				Total Number of D Species Across A		6 (B)
3				Opecies Acioss A	iii Otiata.	(D)
I				Percent of Dominion That Are OBL, FA		83.3 (A/
5				mat Are OBL, 1 A	CVV, OI I AO.	(A/
S				Prevalence Index	x worksheet:	
7				Total % Cov		Multiply by:
	45	= Total Cover		OBL species	95	x 1 = 95
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	70	x 2 = 140
. Lindera benzoin	40	Yes	FACW	FAC species	0	x 3 = 0
2.				FACU species	5	x 4 = <u>20</u>
				UPL species	0	x 5 = 0
S				Column Totals:	170	(A) <u>255</u> (E
ı				Droy clores	Index = B/A =	1.5
5			-			
S			-	Hydrophytic Veg		
				1 - Rapid Te X 2 - Dominan	st for Hydrophy	
	40	= Total Cover		X 3 - Prevalen		
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting
. Scirpus cyperinus	40	Yes	OBL	data in R	emarks or on a	separate sheet)
. Carex lurida	30	Yes	OBL	Problematic	Hydrophytic Ve	egetation ¹ (Explain)
	30	Yes	FACW			land hydrology must
B. Impatiens capensis				be present, unless		·
4. Leersia oryzoides	25	Yes	OBL	-	•	
5				Definitions of Ve	getation Strata	a:
S					,	m) or more in diameter
7				at breast height ([DBH), regardles	ss of height.
3.						ess than 3 in. DBH
9				and greater than	or equal to 3.28	sft (1 m) tall.
10.						dy) plants, regardless of
11.				size, and woody p	plants less than	3.28 ft tall.
					II woody vines	greater than 3.28 ft in
12				height.		
	125	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)	<u> </u>					
				Hydrophytic Vegetation		
3				Present?	Yes _	<u>x</u> No
4.						
··	0	= Total Cove	r			
	U	= Total Cove	ı			

SOIL Sampling Point: DP-042 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Muck 0-6 10YR 5/1 10YR 4/6 55 MS Clay 7.5YR 4/4 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 6 No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	ity: Chauta	auqua County	/	Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				St	tate: NY	Sampling Point:	DP-043	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	e: Town	of Ripley	_		
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	2
	•	LRR R		Lat: 42.189910°		,	1		Datum: NA	
Subregion (LRR or I	-		1 Otto C mares		TN L	Long: 79.75		" -# PEO40	Datum. 1	1000
Soil Map Unit Name		rack loamy fine sand		·			NWI class			
Are climatic / hydrol	•	• • • • • • • • • • • • • • • • • • • •	•			o ((If no, explain in	Remarks.)		
·		, or Hydrology				\re "Normal C	Circumstances" p	present? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	f needed, exp	olain any answe	rs in Remarks.)		
SUMM	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations	s, transects	, important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				_
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	X No		ļ
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Sit	te ID: 01	5	_	
HYDROLOGY										
Wetland Hydrolo							Secondary	Indicators (minimum	of two require	ed)
		e is required; check	all that annly)					Soil Cracks (B6)	Or two require	2 (1)
Surface Water	•	15 required, erice.		-Stained Leaves (E				Patterns (B10)		
x High Water 1				c Fauna (B13)	33)			n Lines (B16)		
x Saturation (A				eposits (B15)				on Water Table (C2))	
Water Marks	•			gen Sulfide Odor (0	C1)			Burrows (C8)		
Sediment De				ed Rhizospheres o		s (C3)		n Visible on Aerial Im	nagery (C9)	
Drift Deposits				nce of Reduced Iro	_	•		r Stressed Plants (D		
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C	;6)	x Geomorp	hic Position (D2)		
Iron Deposits	is (B5)		Thin M	luck Surface (C7)			Shallow A	Aquitard (D3)		
	Visible on Aerial Im		Other ((Explain in Remark	ks)			ographic Relief (D4)		
Sparsely Ve	egetated Concave S	Surface (B8)					x FAC-Neu	tral Test (D5)		
Field Observatio										
Surface Water Pre		Yes No _		,		·				
Water Table Pres		Yes x No		n (inches): 7		Wetland I	Hydrology Pre	sent? Yes <u> </u>	x No	
Saturation Present (includes capillary		Yes x No	Depth	n (inches): 6						
	<u> </u>	auge, monitoring we	ell, aerial phote	os, previous inspe	ections), if availa	able:				
	,	_	, .		*					
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
. Fagus grandifolia	30	Yes	FACU	Number of Domi That Are OBL, F.			3	(A)
2. Ulmus americana	25	Yes	FACW					_` ′
. Acer rubrum	40	Yes	FAC	Total Number of Species Across			5	(B)
								_` ′
				Percent of Domin			60	(A/B
i						-		_`
S				Prevalence Inde				
				Total % Co			lultiply by:	_
	95	= Total Cover		OBL species	0	_!		
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species	25			_
. Hamamelis virginiana	10	Yes	FACU	FAC species	50	_'	150	
				FACU species	40	•		
				UPL species	0	x 5 =		
				Column Totals:	115	_ (A)	360	(B
				Prevalenc	e Index = B/A =	3.13		
				Hydrophytic Ve	est for Hydrophy		tation	
-				X 2 - Dominar			idion	
	10	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			ng
Equisetum arvense	10	Yes	FAC	data in I	Remarks or on a	separat	e sheet)	
				Problemation	c Hydrophytic Ve	egetation	¹ (Explain)	
				¹ Indicators of hy				
				be present, unles				
k				5.6.22				
o				Definitions of V	_			
)				Tree – Woody pl	•	,		ſ
7				at breast height			_	
3.				Sapling/shrub -				
)				and greater than	•			
0				Herb – All herba				of
1				size, and woody				
12.				Woody vines – height.	All woody vines	greater t	han 3.28 ft in	
	10	= Total Cover						
1.16 0 (D		= Total Cover						
pody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
·				Vegetation				
				Present?	Yes _	<u>x</u> 1	lo	
l.	<u> </u>							
•	0	= Total Cove	r					
*·								

SOIL Sampling Point: DP-043 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Muck 10YR 5/1 10YR 4/6 60 MS Clay 10YR 2/1 Clay 7.5YR 5/8 MS Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 5 No Remarks:

Project/Site:	South Ripley So	lar and Storage Proje	ect	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-044	
Investigator(s):	Jimmy Ireland			Section, T	ownship, Range	e: Town of F	Riplev	•		
Landform (hillslope,		Hillslope			of (concave, conv		Convex	-	Slope (%):	2
		Πιιισιορο			,	,			Datum: N	
Subregion (LRR or I				Lat: 42.191970)°N i	Long: 79.74951				1000
Soil Map Unit Name		silt loam; 3 to 8 percer	·				NWI classific		oed	
·	-	n the site typical for th	· ·			o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	1? A	Are "Normal Circu	mstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	site map s	showing sam	npling point	: locations, tr	ransects, i	mportant feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No	х	within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo						_		dicators (minimum	of two require	ed)
	•	e is required; check all						il Cracks (B6)		
Surface Water			_	-Stained Leaves (B9)	_	-	atterns (B10)		
High Water T				c Fauna (B13)		_	Moss Trim I			
Saturation (A	•			eposits (B15)	(04)	_	-	Water Table (C2)	l .	
Water Marks		·		gen Sulfide Odor (- (C2)	Crayfish Bu		(CQ)	
Sediment De Drift Deposits			_	ed Rhizospheres nce of Reduced In	_	. (C3)	-	√isible on Aerial Im Stressed Plants (D		
Algal Mat or		•	_	t Iron Reduction in	, ,	:6)	_	c Position (D2)	',	
Iron Deposits	, ,	•		luck Surface (C7)	-		Shallow Aq			
<u> </u>	isible on Aerial Im	nagery (B7)		(Explain in Remar		_	•	raphic Relief (D4)		
_	getated Concave S	• , , ,			,	_	FAC-Neutra			
Field Observation		·			I					
Surface Water Pre	esent?	Yes No	x Depth	ı (inches):	1					
Water Table Prese	ent?	Yes No	x Depth	n (inches):	1	Wetland Hyd	rology Prese	ent? Yes	No _	Х
Saturation Presen		Yes No	x Depth	ı (inches):						
(includes capillary	<u> </u>									
Describe Recorde	d Data (stream ga	auge, monitoring well,	, aerial photo	os, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
Acer saccharum	85	Yes	FACU	Number of Domi That Are OBL, F.		0 (A
			17.00	That Ale OBL, I	ACW, OIT AC.	(A
2				Total Number of		3 (B
3				Species Across	All Strata.	3(B
4				Percent of Domin		0 (A
5				That Ale OBL, I	ACW, OIT AC.	0(A
6				Prevalence Inde	ex worksheet:	
7				Total % Co		Multiply by:
	85	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 = 0
1. Rhus typhina	30	Yes	UPL	FAC species	0	x 3 = 0
2				FACU species	165	x 4 = <u>660</u>
				UPL species	30	x 5 = 150
3. 				Column Totals:	195	(A) <u>810</u> (
4				Drevalone	e Index = B/A =	<i>4</i> 15
5						
6				Hydrophytic Ve	_	
7				l ——	est for Hydrophy nce Test is >50%	
	30	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)				4 - Morphol	ogical Adaptatio	ons ¹ (Provide supporting
I. Rubus idaeus	80	Yes	FACU	data in I	Remarks or on a	a separate sheet)
2.				Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
						tland hydrology must
o				be present, unles		
4				-	-	
5				Definitions of V	egetation Strat	a:
6						m) or more in diameter
7				at breast height	(DBH), regardles	ss of height.
8						ess than 3 in. DBH
9				and greater than	or equal to 3.28	3 ft (1 m) tall.
10.						ody) plants, regardless of
11.				size, and woody	plants less than	3.28 ft tall.
				Woody vines – height.	All woody vines	greater than 3.28 ft in
12				neignt.		
	80	= Total Cover				
/oody Vine Stratum (Plot size: 30 ft.)						
·				Unidanahidia		
2.				Hydrophytic Vegetation		
3.				Present?	Yes _	Nox
4.						
	0	= Total Cove	ır			
	U	- 1 Juli 2016	•			

SOIL Sampling Point: DP-044 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 90 10YR 4/4 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-045	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			f (concave, conv	•	Convex		Slope (%):	2
	•	-			•	•			• • • •	
Subregion (LRR or	-	LRR R		Lat: 42.190932	<u>°N ı</u>	Long: 79.75002			Datum: N	4003
Soil Map Unit Name	e: VoA - Volusia	a channery silt loam; 0 to	o 3 percen	t slopes			NWI classific		oed	
Are climatic / hydrol	logic conditions on	n the site typical for this t	time of yea	ar? Yes	<u>x</u> No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	icantly disturbed	l? A	re "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (If	f needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	howing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:						Secondary In	dicators (minimum	of two requir	ed)
_		s is required; chack all th	set apply)			_	-		Or two require	3 (1)
Surface Wat	•	e is required; check all th		Stained Leaves (E	P0)			il Cracks (B6) atterns (B10)		
High Water		_	_	: Fauna (B13)	Daj	_	_	Lines (B16)		
Saturation (A			_	eposits (B15)		_	_	n Water Table (C2)	i	
Water Marks	•		_	en Sulfide Odor ((C1)		Crayfish Bu			
Sediment De		_	_	d Rhizospheres		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit		_	_	ce of Reduced Iro	_	`	_	Stressed Plants (D		
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)	_	_ Thin Mu	uck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other (E	Explain in Remar	rks)	_	_	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes Nox			1					
Water Table Pres		Yes Nox				Wetland Hyd	Irology Prese	ent? Yes	No	Х
Saturation Preser		Yes Nox	Depth	(inches):	1					
(includes capillary	<u> </u>	auge, monitoring well, a	ial aboto	vioue inenc	+:					
Describe Records	30 Data (Siream ya	auge, monitoring weii, as	eriai prioto:	s, previous irispe	ections), ii avalid	able:				
Remarks:										
No wetland hydrolo	gy observed									

Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
CU That Are OBL, FACW, or FAC:
Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 80 x3 = 240 FACU species 100 x4 = 400 UPL species 0 x5 = 0 Column Totals: 180 (A) 640 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B) Prevalence Index worksheet:
Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3
That Are OBL, FACW, or FAC: 33.3 (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by: OBL species 0 $x 1 = 0$ FACW species 0 $x 2 = 0$ FAC species 0 $x 3 = 240$ FACU species 0 $x 4 = 400$ UPL species 0 $x 5 = 0$ Column Totals: 180 $x 5 = 0$ Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^{1}$
OBL species 0 $x 1 = 0$ FACW species 0 $x 2 = 0$ FAC species 80 $x 3 = 240$ FACU species 100 $x 4 = 400$ UPL species 0 $x 5 = 0$ Column Totals: 180 (A) 640 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^{1}$
FACW species 0 $x 2 = 0$ FAC species 80 $x 3 = 240$ FACU species 100 $x 4 = 400$ UPL species 0 $x 5 = 0$ Column Totals: 180 (A) 640 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^{1}$
FAC species 80
FACU species 100 x 4 = 400 UPL species 0 x 5 = 0 Column Totals: 180 (A) 640 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
UPL species 0 $x = 0$ (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^{1}$
Column Totals: 180 (A) 640 (B) Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
Prevalence Index = B/A = 3.55 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
3 - Prevalence Index is ≤3.0 ¹
4 - Morphological Adaptations (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Definitions of Vegetation Strate.
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
<u> </u>
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in height.
Hydrophytic
Vegetation
Present? Yes Nox

SOIL Sampling Point: DP-045 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-046	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			f (concave, con		Concave	•	Slope (%):	2
	•	-				·			• • •	
Subregion (LRR or	-	LRR R		Lat: 42.184371	°N ı	Long: 79.75621			Datum: N	ADOS
Soil Map Unit Name	e: VoB - Volusia	a channery silt loam; 0 to	o 8 percen	it slopes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions on	n the site typical for this t	time of yea	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	iicantly disturbed	l? A	Are "Normal Circu	ımstances" pre	esent? Yes	x No	·
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (I	If needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	howing sam	pling point	locations, tr	ransects, i	mportant feat	tures, etc.	1
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	l
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID) :			ļ
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Secondary In	dicators (minimum	of two requir	ed)
_		e is required; check all th	est annly)				-	il Cracks (B6)	Or the requi	<i></i>
Surface Wat	•	15 required, or ook an an		Stained Leaves (E	R9)			atterns (B10)		
High Water		_	_	: Fauna (B13)	55,		_	Lines (B16)		
Saturation (A		_	_	eposits (B15)			_	n Water Table (C2)	1	
Water Marks	•	_	_	en Sulfide Odor ((C1)	<u> </u>	_ Crayfish Bu			
Sediment De		_	_	ed Rhizospheres		s (C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)	_	Presenc	ce of Reduced Iro	on (C4)		Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)	_	_ Thin Mu	uck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other (F	Explain in Remar	rks)	_	_	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes Nox		(inches):						
Water Table Pres		Yes Nox		(inches):		Wetland Hyd	Irology Prese	ent? Yes	No _	Х
Saturation Preser		Yes Nox	Depth	(inches):						
(includes capillary	<u> </u>		- =:al photo	- provious inspe		-bla.				
Describe Recorde	30 Data (Siream ya	auge, monitoring well, a	eriai prioto	s, previous irispe	ections), ii avalid	able:				
Remarks:										
No wetland hydrolo	gy observed									

							Point: DP-04	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Prunus serotina	45	Yes	FACU	Number of Domi That Are OBL, F.			0	(A)
2. Acer saccharum	55	Yes	FACU				<u> </u>	_(' ',
3.				Total Number of Species Across			4	(B)
								_(
1				Percent of Domin			0	(A/B
5					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		_(,,,_
5				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	M	lultiply by:	
	100	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
. Prunus serotina	30	Yes	FACU	FAC species	0	x 3 =	0	
2.				FACU species		-1	680	
				UPL species	0	•	0	
				Column Totals:	170	(A)	680	(B)
l				Prevalenc	e Index = B/A =	4		
5								
S	· ·			Hydrophytic Ve	_		tation	
7					est for Hydrophy nce Test is >50%		ialiUI1	
	30	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			ng
. Rubus idaeus	40	Yes	FACU	data in I	Remarks or on a	separat	e sheet)	
2.				Problematic	c Hydrophytic Ve	egetation	¹ (Explain)	
				¹ Indicators of hy				
J				be present, unles				
4					-			
5.				Definitions of V	egetation Strat	a:		
6				Tree – Woody pl	•	,		
7				at breast height	(DBH), regardles	ss of hei	ght.	
8				Sapling/shrub -				
9	<u> </u>			and greater than	or equal to 3.28	3 ft (1 m)	tall.	
10.				Herb – All herba				of
11				size, and woody	plants less than	3.28 ft ta	all.	
				Woody vines -	All woody vines	greater tl	han 3.28 ft in	
12				height.				
	40	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
•								
2.				Hydrophytic Vegetation				
3				Present?	Yes _	N	No x	
4.								
	0	= Total Cove	ır					
	U	= Total Cove	:1					

SOIL Sampling Point: DP-046 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 4/4 90 10YR 3/3 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Pro	oject	City/Coun	ity: Chauta	uqua County		Sampling Date:	Aug 5, 202	20
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State	e: NY	Sampling Point:	DP-047	
Investigator(s):	Jimmy Ireland			Section, To	ownship, Range	: Town of	Riplev	_		
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	2
	•	LRR R							Datum: N	
Subregion (LRR or	-		2: 0	Lat: 42.187051°	TN L	Long: 79.7552		" . " Not Many		1000
Soil Map Unit Name		a channery silt loan					_ NWI classif		ped	
Are climatic / hydrol	•	**	•			O (If n	no, explain in F	Remarks.)		
		, or Hydrology				re "Normal Circ	umstances" pi	resent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	' (If	f needed, explai	n any answers	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	ı site map	showing sam	pling point	locations, t	transects,	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	l Wetland Site II	D: 013	į.		
planted.										
HYDROLOGY										
Wetland Hydrolo								ndicators (minimum	of two require	ed)
-	•	e is required; check						oil Cracks (B6)		
Surface Wat				-Stained Leaves (E	39)	_X	_	Patterns (B10)		
x High Water				ic Fauna (B13)		_		Lines (B16)		
× Saturation (A	-			Deposits (B15)	(0.1)	_	_	n Water Table (C2)	1	
Water Marks				gen Sulfide Odor ((20)	_	urrows (C8)	(00)	
Sediment De Drift Deposit				ed Rhizospheres on the of Reduced Iro	_	(C3)	_	Visible on Aerial Im Stressed Plants (D		
Algal Mat or				nt Iron Reduction in		6) x	_	ic Position (D2)	')	
Iron Deposits				Muck Surface (C7)	1 111100 000 (2.	<i></i>	_	quitard (D3)		
· ·	/isible on Aerial Im	agery (B7)		(Explain in Remark	ks)		_	graphic Relief (D4)		
l —	egetated Concave S				,		FAC-Neutr			
Field Observatio										
Surface Water Pro	esent?	Yes No	x Depti	n (inches):						
Water Table Pres		Yes x No		h (inches): 9		Wetland Hye	drology Pres	ent? Yes	x No	
Saturation Preser		Yes x No	Depth	h (inches): 11						
(includes capillary			" - rial pho	· · · · · · · · · · · · · · · · · · ·	" - '\ 'f eveils					
Describe Records	ed Data (stream ga	auge, monitoring w	eli, aeriai pnoi	.os, previous inspe	ctions), if availa	ıble:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 0010.	ороског.	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	
2.	·			That Are OBL, FACW, or FAC: 3 (A)	
3.				Total Number of Dominant Species Across All Strata: 3 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A/E	3)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 100 x 1 = 100	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>50</u> x 2 = <u>100</u>	
1				FAC species <u>25</u> x 3 = <u>75</u>	
2				FACU species 0 x 4 = 0	
3				UPL species 0 x 5 = 0 Column Totals: 175 (A) 275 (B	
4.				Column Totals: <u>175</u> (A) <u>275</u> (B	,
5.				Prevalence Index = B/A = 1.57	
6.				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
Carex vulpinoidea	60	Yes	OBL	data in Remarks or on a separate sheet)	
2. Juncus pylaei	40	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
Phalaris arundinacea	50	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must	
Solidago rugosa	25	No	FAC	be present, unless disturbed or problematic.	
5.				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7.				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
9.				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
12.				Woody vines – All woody vines greater than 3.28 ft in height.	
	175	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		-			
1					
2.				Hydrophytic	
3				Vegetation	
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.					
. , ,	,				\neg

Sampling Point: DP-047

SOIL Sampling Point: DP-047 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 0-6 10YR 5/8 10YR 4/1 70 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Projec	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	ConnectGEN, LL	LC				State:	NY	Sampling Point:	DP-048	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of R	Riplev	•		
Landform (hillslope,		Hillslope			ef (concave, con		Convex		Slope (%):	2
	•	Тішэюрс			•	•			Datum: N	
Subregion (LRR or I				Lat: 42.184003	3°N	Long: 79.752187				1000
Soil Map Unit Name		a channery silt loam; (NWI classific		oed	
Are climatic / hydrol	ogic conditions on	n the site typical for thi	is time of ye	ar? Yes	<u>x</u> N	lo (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	ქ? △	Are "Normal Circur	mstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (1	If needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	ite map	showing sam	npling point	locations, tr	ansects, i	mportant feat	tures, etc.	1
Hydrophytic Vege	etation Present?	Yes	No	X	Is the Sample	ed Area	_		_	_
Hydric Soil Preser		Yes	No		within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID:):			
HYDROLOGY										
Wetland Hydrolo								dicators (minimum	of two require	ed)
	•	e is required; check all					•	il Cracks (B6)		
Surface Water				-Stained Leaves (F	(B9)	_	•	atterns (B10)		
High Water T		-		ic Fauna (B13)		_	Moss Trim I			
Saturation (A	•			Deposits (B15)	(04)	_	•	Water Table (C2)	l .	
Water Marks	-	-		gen Sulfide Odor ((00)	Crayfish Bu		(CO)	
Sediment De	. , ,	-		ed Rhizospheres	_	. (C3)	•	Visible on Aerial Im		
Drift Deposits Algal Mat or	, ,	-		nce of Reduced Iron			•	Stressed Plants (D	1)	
Iron Deposits	, ,	-		nt Iron Reduction ir Muck Surface (C7)	•	.6)	Shallow Aqu	c Position (D2)		
	s (63) /isible on Aerial Im	- 		(Explain in Remar		_	•	raphic Relief (D4)		
	getated Concave S	• , , ,		(Explain in Nemai	iks,	_	FAC-Neutra			
		Juliace (Do)			Ī	_	I AO NOGES	11 1631 (120)		
Field Observation Surface Water Pre		Yes No:	v Depth	o (inches):						
Water Table Prese		Yes No		h (inches):		Wetland Hydr	rology Prese	ent? Yes	No _	v
Saturation Presen		Yes No		,		110	1010971.222		— ···- –	
(includes capillary			<u>X</u> 50p	T (IIIOIIOO).		I				
<u> </u>	<u> </u>	auge, monitoring well,	, aerial phot	os, previous inspe	ections), if avail	able:				
<u> </u>										
Remarks: No wetland hydrolo	oav observed									
,	3)									

							Point: DP-04	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer saccharum	70	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
2. Fagus grandifolia	30	Yes	FACU					_(' ')
3				Total Number of Species Across			4	(B)
							•	_(_)
1				Percent of Domin			25	(A/B
5					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_(,,,,
S				Prevalence Inde	ex worksheet:			
7.				Total % Co	ver of:	M	ultiply by:	_
	100	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	=	0	
. Fagus grandifolia	20	Yes	FACU	FAC species	25	x 3 =	75	
2.				FACU species	120	-		
3				UPL species	0	-		
				Column Totals:	145	(A)	555	(B)
i. -				Prevalenc	e Index = B/A =	3 82		
5								
S	· ·			Hydrophytic Ve	_		tation	
7					est for Hydrophy nce Test is >50%		ıalıUII	
	20	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			g
. Lycopodium clavatum	25	Yes	FAC	data in I	Remarks or on a	separat	e sheet)	
2.				Problematic	c Hydrophytic Ve	egetation	1 (Explain)	
				¹ Indicators of hy				
				be present, unles				
4					-			
5				Definitions of V	_			
5				Tree – Woody pl	•	•		
7				at breast height	(DBH), regardies	ss or neig	jnt.	
3				Sapling/shrub -				
9.				and greater than	or equal to 3.28	3π (1 m)	tall.	
10.				Herb – All herba				of
11.				size, and woody				
				Woody vines – height.	All woody vines	greater th	nan 3.28 ft in	
12		Tatal Cause		noight.				
	25	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
·				Hydrophytic				
2				Vegetation				
3.				Present?	Yes _	N	lo <u>x</u>	
4								
	0	= Total Cove	er					
			-					

SOIL Sampling Point: DP-048 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 90 7.5 YR 4/6 10 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Pro	oject		City/Coun	nty: Chauta	auqua Cou	ınty		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	ConnectGEN, L	_LC						State:	NY	Sampling Point:	DP-049	
Investigator(s):	James Ireland				Section, To	ownship, Range	e: <u>To</u>	wn of Riple				
Landform (hillslope,	, terrace, etc.):	Depression			Local relief	f (concave, conv	vex, none)): <u>Cor</u>	ncave		Slope (%):	2
Subregion (LRR or	MLRA):LRR R				Lat: 42.185227°	°N I	Long: 79.	.754468°W	/		Datum: NA	4D83
Soil Map Unit Name	e: VoA - Volus	sia channery silt loan	n; 0 to	3 perce	nt slopes			NV	NI classific	ation: Not Mapp	ed	
Are climatic / hvdro	ologic conditions c	on the site typical for	this tin	ne of ve	ear? Yes	x No	0	(If no. ex	oplain in Re	emarks.)		
	_	, or Hydrology		-			Are "Normal				x No	
									•		<u> </u>	
		, or Hydrology DINGS – Attach			urally problematic?				•	in Remarks.) mportant feat	ures, etc.	
Hydrophytic Vege	etation Present?	Yes	х	No		Is the Sample	ed Area					
Hydric Soil Prese		Yes	X	- No		within a Wetla		,	Yes	(No		
Wetland Hydrolog		Yes _	x	_ No		If yes, optiona	al Wetland	Site ID:	013			
LIVEROLOGY												
HYDROLOGY								Coo		" -t (minimum	China magnifer	1\
Wetland Hydrolo									-	dicators (minimum	of two require	∌d)
		ne is required; check	all that							Cracks (B6)		
Surface Wat			_		-Stained Leaves (E	39)		_	_	atterns (B10)		
High Water			—	-	c Fauna (B13)					ines (B16)		
Saturation (A	•		_		eposits (B15)	(04)			-	Water Table (C2)		
Water Marks			_		gen Sulfide Odor ((00)		rayfish Bur		- ~~~ (CO)	
Sediment De					ed Rhizospheres of	=	(C3)			isible on Aerial Im		
Drift Deposit Algal Mat or			_		nce of Reduced Iront It Iron Reduction in		·e)			Stressed Plants (D: Position (D2)	1)	
Iron Deposits			_		luck Surface (C7)	•	0,		hallow Aqu	-		
	/isible on Aerial Ir	magery (B7)	_		(Explain in Remar				-	aphic Relief (D4)		
	egetated Concave				()	-,				l Test (D5)		
Field Observatio												
Surface Water Pr	esent?	Yes No	х	Depth	ı (inches):							
Water Table Pres	sent?	Yes No	х	Depth	ı (inches):		Wetlan	nd Hydrolo	gy Presei	nt? Yes x	No_	
Saturation Preser		Yes No			n (inches):							
(includes capillary					 	.)						
Describe Records	ed Data (stream g	gauge, monitoring w	ell, aer	ial phot	os, previous inspe	ections), if availa	able:					
Remarks:												

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
·		Ороской.	Otatao	Number of Domi		
1				That Are OBL, F	ACW, or FAC:	(A)
2				Total Number of	Dominant	
3				Species Across	All Strata:	(B)
4				Percent of Domi		
5				That Are OBL, F	ACW, or FAC:	(A/B
6						
7.				Prevalence Inde Total % Co		Multiply by:
		= Total Cover		OBL species	90	x 1 = 90
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 = 0
· · ·				FAC species	0	
1				FACU species	30	x 4 = 120
2				UPL species	0	x 5 = 0
3				Column Totals:	120	(A) <u>210</u> (B)
4						
5				Prevalenc	e Index = B/A =	1.75
6				Hydrophytic Ve	getation Indica	tors:
7					est for Hydrophy	
					nce Test is >50%	
erb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevale		ons ¹ (Provide supporting
						a separate sheet)
1. Carex vulpinoidea	30	Yes	OBL			4
2. Juncus pylaei	20	No	OBL	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
3. Scirpus atrovirens	30	Yes	OBL	1		land hydrology must
4. Carex flava	10	No	OBL	be present, unle	ss disturbed or p	problematic.
5. Potentilla simplex	20	No	FACU	Definitions of V	egetation Strat	a:
6. Trifolium pratense	10	No	FACU	Tree – Woody p	lants 3 in. (7.6 ci	m) or more in diameter
				at breast height	(DBH), regardles	ss of height.
8.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
9.				and greater than		
				Herb – All herba	iceous (non-woo	dy) plants, regardless of
10				size, and woody		
11				Woody vines –	All woody vines	greater than 3.28 ft in
12				height.		-
	120	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
I						
2				Hydrophytic		
				Vegetation	V	Y No.
ა. 				Present?	Yes _	No
4						
	0	= Total Cove	r			

SOIL Sampling Point: DP-049 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 5/8 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Investigator(s): James Ireland Section, Township, Range: Town of Ripley Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2 Subregion (LRR or MLRA):LRR R Lat: 42.195172°N Long: 79.746299°W Datum: NAD83 Soil Map Unit Name: Daa - Duane gravelly sandy loam; 0 to 3 percent slopes NWI classification: Not Mapped Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No	Project/Site:	South Ripley So	olar and Storage Proje	ct	City/Cou	nty: Chauta	auqua County		Sampling Date:	Aug 6, 202	20
Landform (hillslope, terrace, etc.):	Applicant/Owner:	ConnectGEN, LI	 LC				State:	NY	Sampling Point:	DP-050	
Landform (hillslope, terrace, etc.):	Investigator(s):	James Ireland			Section, T	ownship. Range	Town of R	Riplev	•		
Subregion (LRR or MLRA):LRR R Lat: 42:195172"N Long: 79.746299"W Date: NAD83 Soil Map Unit Name: Date - Duane gravelly sandy loam; 0 to 3 percent slopes Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil or hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No SUMMARY OF FINDINGS – Attach site map showing sampling port locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: HYDROLOGY Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Surface Water (A1) Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Man Deposits (B15) Dy-Season Water Table (C2) Saturation (A3) Present? Yes No Water Marks (B1) Surface Soil Cracks (B2) Surface Soil Cracks (B2) Surface Soil (Carcks (B3) Surface Soil (Carcks (B4) Surface (C2) Surface Soil (Carcks (B4) Surface (C2) Surface (C2) Surface (C2) Surface (C2) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C3) Surface (C4) Surface (C4) Surface (C4) Surface (C4) Surface (C4) Surface (C4) Surface (C5) Surface (C6) Surface (C6) Surface (C7) Surface (C6) Surface (C7) Surface (C6) Surface (C7) Surface (C6) Surface (C7) Surface (C6) Surface (C7) Surface (C6) Surface (C7) Surface (C6) Surface (C6) Surface (C6) Surface (C6) Surface (C7) Surf			Terrace			_				Slone (%)	2
Soll Map Unit Name: Das - Duane gravelly sandy loam; 0 to 3 percent slopes		•	Terrace				•				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes		•				2°N	Long: /9./46∠98				ADOS
Are Vegetation	·									ped	
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X within a Wetland? Yes No X Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Upland data point in rutted up field near intersection or RTE 3 and RTE 6 HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Primary Indicators (minimum of two required) Hydrogen Sulfide Odor (C1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Sturd or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Are climatic / hydrol	logic conditions or	n the site typical for th	is time of ye	ar? Yes	<u>x</u> N	o (If no	, explain in R	emarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Upland data point in rutted up field near intersection or RTE 3 and RTE 6 HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Charles (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches):	Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	d? A	Are "Normal Circur	nstances" pre	esent? Yes	X No	·
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Wetland Hydrology Present? Yes					X			Yes	No	x	
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Saturation Present? Yes Nox _ Depth (inches):							Wetland Hydr	rology Prese	ent? Yes	No	¥
								···· 3,			
				<u> </u>	(11.0.1.0.2).						
	Remarks: No wetland hydrolo	any observed									
	No wolland, a.c.	gy 0000.102									
Remarks: No wetland hydrology observed											

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 00101	Ороской.	Ciaiao	Number of Dominant Species That Are OBL, FACW, or FAC: 0	(4)
2.				That Are OBL, I ACW, OF I AC.	(A)
3.				Total Number of Dominant Species Across All Strata: 1	(B)
					`` /
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
· · ·		= Total Cover		OBL species 0 $x 1 = 0$	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0 x 2 = 0$	
1				FAC species <u>0</u> x 3 = <u>0</u>	
2.				FACU species 125 x 4 = 500	
3.				UPL species <u>0</u> x 5 = <u>0</u>	
4				Column Totals: <u>125</u> (A) <u>500</u>	(B)
<u> </u>				Prevalence Index = B/A = 4	
5				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide suppo	rtina
Plantago lanceolata	85	Voo	FACU	data in Remarks or on a separate sheet)	rung
Symphyotrichum ericoides		Yes		Problematic Hydrophytic Vegetation ¹ (Explain)	
Solidago canadensis	20		FACU FACU	Troblematic Trydiophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must	
3. Sulluago Cariaderisis	20	NO	FACO	be present, unless disturbed or problematic.	
4				Definitions of Vegetation Strata:	
5					otor
6				Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.	eter
7 8.				Sapling/shrub – Woody plants less than 3 in. DBH	
				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardle	ss of
10				size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft	in
12				height.	
	125	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes NoX	_
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

Sampling Point: DP-050

SOIL Sampling Point: DP-050 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Cour	nty: Chauta	auqua County	Sampling Date:	Aug 6, 2020
Applicant/Owner:	ConnectGEN, LI					State:	Sampling Point:	DP-051
Investigator(s):				Section, To	ownship, Range	e: Town of Ripley	_	
Landform (hillslope,	torrace etc.):	Terrace			of (concave, con			Slope (%): 1
, ,		Terrace			•	· -		Datum: NAD83
Subregion (LRR or I	-			Lat: 42.195384	ŀ°N I	Long: 79.745996°W		
Soil Map Unit Name	: Daa - Duane	gravelly sandy loa	m; 0 to 3 perc	cent slopes		NWI clas	sification: Not Mapp	ped
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of y	ear? Yes	<u>x</u> N	lo (If no, explain in	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	1? A	Are "Normal Circumstances"	present? Yes	x No
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic	? (I	lf needed, explain any answ	ers in Remarks.)	
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	t locations, transects	s, important fea	tures, etc.
Hydrophytic Vege	etation Present?	Yes	x No)	Is the Sample	ed Area		
Hydric Soil Prese		Yes _	x No)	within a Wetl	land? Yes _	No	
Wetland Hydrolog		Yes)	If yes, optiona	al Wetland Site ID: 0	15	
HYDROLOGY								
Wetland Hydrolo	ay Indicators:					Secondari	y Indicators (minimum	of two required)
-		e is required; check	all that annly	Λ		·	Soil Cracks (B6)	or two required)
Surface Water	•	# 15 required, oncon		r-Stained Leaves ((R9)		e Patterns (B10)	
High Water 1				tic Fauna (B13)	D9)	_	im Lines (B16)	
Saturation (A				Deposits (B15)			son Water Table (C2)	ı
Water Marks	•			ogen Sulfide Odor ((C1)		Burrows (C8)	
Sediment De				zed Rhizospheres			on Visible on Aerial Im	nagery (C9)
Drift Deposits	s (B3)		Prese	ence of Reduced Ir	on (C4)	Stunted	or Stressed Plants (D	1)
Algal Mat or	Crust (B4)		Rece	nt Iron Reduction i	n Tilled Soils (C	C6) <u>x</u> Geomorp	phic Position (D2)	
Iron Deposits	s (B5)		Thin I	Muck Surface (C7)		Shallow	Aquitard (D3)	
	isible on Aerial Im	. , ,	Other	r (Explain in Remar	rks)		oographic Relief (D4)	
Sparsely Veg	getated Concave	Surface (B8)				x FAC-Net	utral Test (D5)	
Field Observatio	ns:							
Surface Water Pre		Yes No						
Water Table Pres		Yes No				Wetland Hydrology Pro	esent? Yes	x No
Saturation Presen		Yes No	x Dept	th (inches):				
(includes capillary		auge, monitoring w	roll porial pho	stoo provious inspe	actions) if avail	ahla:		
Describe Records	U Dala (Siream y	auge, monitoring w	eli, aciiai piio	105, pievious mapo	30110115), 11 avam	able.		
Remarks:								

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
				Number of Domi That Are OBL, F		3 (A)
2.						
3.				Total Number of Species Across		4 (B)
						(=/
4				Percent of Domi That Are OBL, F		75 (A/E
5				·		
6.				Prevalence Inde		
7				Total % Co		Multiply by:
	0	= Total Cover		OBL species		x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	x 2 = 230 x 3 = 0
1. Cornus alba	45	Yes	FACW	FACU species	40	
2. Salix discolor	40	Yes	FACW	UPL species	0	
3.				Column Totals:	155	(A) 390 (E
4						<u> </u>
5				Prevalenc	e Index = B/A =	2.51
6.				Hydrophytic Ve	getation Indica	tors:
7					est for Hydrophy	
		T 0		X 2 - Domina		
erb Stratum (Plot size: 5 ft.)	85	= Total Cover		X 3 - Prevaler		ons ¹ (Provide supporting
		Vaa	EACW.			a separate sheet)
1. Mentha arvensis	30	Yes	FACW	5		1
2. Solidago canadensis	40	Yes	FACU			egetation ¹ (Explain)
3						tland hydrology must
4				be present, unle	ss disturbed or p	orobiematic.
5				Definitions of V	egetation Strat	a:
6				1	•	m) or more in diameter
7				at breast height	(DBH), regardles	ss of height.
8.						ess than 3 in. DBH
9				and greater than	or equal to 3.28	3 ft (1 m) tall.
10.						ody) plants, regardless of
11.				size, and woody		
12.				Woody vines – height.	All woody vines	greater than 3.28 ft in
	70	= Total Cover		g		
Voods Vine Stratum (Diet size, 20 ft)		_ Total Cover				
/oody Vine Stratum (Plot size: 30 ft.)						
l				Hydrophytic		
2				Vegetation		
3				Present?	Yes _	No
4.						

SOIL Sampling Point: DP-051 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) Texture Remarks 0-20 10YR 3/2 7.5 YR 4/6 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Countripley Co	olar and Storage Pro	ject		City/Coun	nty: Chauta	uqua County		Sampling Date:	Aug 6, 2020
ConnectGEN, L	LC					Sta	te:	Sampling Point:	DP-052
				Section, To	ownship, Range	: Town c	of Ripley		
e, terrace, etc.):	Terrace			Local relief	f (concave, conv	ex, none):	Convex	;	Slope (%): 2
r MLRA):			Lat	- :: 42.195543'	°N L	ong: 79.745	837°W		Datum: NAD83
-	e gravelly sandy loa	m: 0 to 3	nercent s	lones				cation: Not Mann	ned
				•	v No	\ (If			,ou
-			-						
						re "Normal Cir	cumstances" pr	esent? Yes	x No
							-		tures, etc.
etation Present?	Yes		No	x	Is the Sample	nd Δrea			
							Yes	No	<u>(</u>
ogy Present?	Yes		No	x	If yes, optiona	I Wetland Site	ID:		
							Secondary In	dicators (minimum	of two required)
	a ia raguirado abaale	all that ar	l . l			-		•	or two required)
•	s is required; check	-			D0)				
		_		•	B9)	-	_		
			-			=			
			-		(C1)	-			
			-			(C3)	-		222n/ (C0)
					_	(03)			
						- 3)		-	'')
its (B5)					-	<u>-</u>		` '	
	nagery (B7)					<u>-</u> _	-		
			•		•	_	_		
ons:									
resent?	Yes No	x D	epth (inc	hes):					
sent?	Yes No	x D	epth (inc	hes):		Wetland H	ydrology Prese	ent? Yes	No x
ent?	Yes No	<u>x</u> D	epth (inc	hes):					
ry fringe)				<u> </u>					
ed Data (stream g	gauge, monitoring we	əll, aerial	photos, p	revious inspe	ections), if availa	ıble:			
	pologic conditions or processing and	Daa - Duane gravelly sandy loar plogic conditions on the site typical fo	Daa - Duane gravelly sandy loam; 0 to 3 plogic conditions on the site typical for this time plots, Soil, or Hydrology, soil, or Hydrology, soil, soil, or Hydrology, soil, or Hydrology, soil, or Hydrology, soil	Daa - Duane gravelly sandy loam; 0 to 3 percent size plogic conditions on the site typical for this time of year? No significary, Soil, or Hydrology significary, Soil, or Hydrology naturally. ARY OF FINDINGS - Attach site map shout pletation Present? Yes No Present? Yes No Present? Yes No Present? Yes No Present? Yes No Present? Yes No Present? Yes No Present? Yes No Presence of the company o	Daa - Duane gravelly sandy loam; 0 to 3 percent slopes Diogic conditions on the site typical for this time of year? Yes , Soil, or Hydrologysignificantly disturbed, Soil, or Hydrologynaturally problematic? ARY OF FINDINGS - Attach site map showing sam petation Present? Yes Nox petation Present? Yes Nox pay Present? Yes Nox alternative procedures here or in a separate report.) In the for Wetland 015. In overgrown field Deposits (A3) Marl Deposits (B15) Its (B1) Hydrogen Sulfide Odor (A3) Its (B3) Presence of Reduced In the force of the following site (B3) In the force of the following site (B3) Presence of Reduced In the following site (B3) Presence of Reduced In the following site (B4) Presence of Reduced In the following site (B4)	Daa - Duane gravelly sandy loam; 0 to 3 percent slopes Diagic conditions on the site typical for this time of year? Yes	Daa - Duane gravelly sandy loam; 0 to 3 percent slopes Diogic conditions on the site typical for this time of year? Yes	ne: Daa - Duane gravelly sandy loam; 0 to 3 percent slopes Daa - Duane gravelly sandy loam; 0 to 3 percent slopes NWI classification of the site typical for this time of year? Yes x No (If no, explain in Report)	ne: Daa - Duane gravelly sandy loam; 0 to 3 percent slopes

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	ороског.	Ciaido	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				That Are OBL, I ACW, OF I AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	2 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	0(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1					x 3 = 0
2					x 4 = 400
3					x = 0 (A) 400 (B)
4.				Column Totals: 100	(A) <u>400</u> (B)
5.				Prevalence Index = B/A = 4	
6.				Hydrophytic Vegetation Indicator	rs:
7				1 - Rapid Test for Hydrophytic	: Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations	¹ (Provide supporting
Plantago lanceolata	50	Yes	FACU	data in Remarks or on a se	eparate sheet)
Solidago canadensis	50	Yes	FACU	Problematic Hydrophytic Vege	etation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetlar	nd hydrology must
4.				be present, unless disturbed or pro	blematic.
5.				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7				at breast height (DBH), regardless	of height.
8.				Sapling/shrub - Woody plants les	s than 3 in. DBH
9.				and greater than or equal to 3.28 ft	(1 m) tall.
10.				Herb – All herbaceous (non-woody	, .
11.				size, and woody plants less than 3.	
12.				Woody vines – All woody vines green height.	eater than 3.28 ft in
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		•			
1					
2.				Hydrophytic	
3.				Vegetation Present? Yes	Nox
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					
,					

Sampling Point: DP-052

SOIL Sampling Point: DP-052 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: In a rutted up field

Project/Site:	South Ripley S	olar and Storage Pro	oject		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 6, 2020
Applicant/Owner:	ConnectGEN, L	LLC					Stat	te:	Sampling Point:	DP-054
Investigator(s):					Section, To	ownship, Range	: Town o	of Ripley		
Landform (hillslope	, terrace, etc.):	Depression			Local relief	f (concave, conv	vex, none):	Concave	(Slope (%): 2
Subregion (LRR or	MLRA):				Lat: 42.195162	.°NI	Long: 79.7433	31 <u>6°W</u>		Datum: NAD83
Soil Map Unit Name	e: ErA - Erie c	hannery silt loam; 0	to 3 pe	ercent s	lopes			NWI classific	cation: Not Mapp	ped
·		on the site typical for				x No	o (If	no, explain in R		,
=	_	, or Hydrology		-				cumstances" pre		x No
								·		X No
		, or Hydrology DINGS – Attach						ain any answers		ures, etc.
Hydrophytic Vege	etation Present?	Yes	х	No		Is the Sample	ed Area			
Hydric Soil Prese		Yes	х	— No		within a Wetl		Yes	x No	
Wetland Hydrolog		Yes _	х	No		If yes, optiona	al Wetland Site	ID: 015		
17/22 OOV	_									
HYDROLOGY										* '4\
Wetland Hydrolo							_		dicators (minimum	of two required)
-		ne is required; check	all tha						il Cracks (B6)	
Surface Wat					-Stained Leaves (E	B9)	_	_	atterns (B10)	
High Water			_	-	ic Fauna (B13)		_	Moss Trim I		
Saturation (/	•		_		Deposits (B15)	(04)	-		Water Table (C2)	
Water Marks			_	-	gen Sulfide Odor ((02)	Crayfish Bu		(00)
Drift Deposit	eposits (B2)		_		ed Rhizospheres once of Reduced Iro	_	(C3)		Visible on Aerial Im Stressed Plants (D	
Algal Mat or			_		nce of Reduced In		-6)		c Position (D2)	1)
Iron Deposit			_		Auck Surface (C7)	·-	<u> </u>	Shallow Aq		
l 	Visible on Aerial II	magery (B7)	_		(Explain in Remar		-	-	raphic Relief (D4)	
	egetated Concave	• • • •	_			,		x FAC-Neutra		
Field Observation	ons:	,							-	,
Surface Water Pr	resent?	Yes No	Х	_ Depth	ı (inches):					
Water Table Pres	sent?	Yes No	х	Depth	ı (inches):		Wetland Hy	ydrology Prese	ent? Yes x	No
Saturation Preser		Yes No	Х	_ Depth	h (inches):					
(includes capillary Describe Records		gauge, monitoring w	ell aer	rial nhot	ros previous inspe	ections) if availa	ahle.			
Describe records	ca Data (Stream (Jauge, monitoring w	cii, aci	iai priot	os, previous mape	in availe	abic.			
Remarks:	_	_	_	_	_	_	_	_	_	_

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1.	70 00101	Сроской:	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.	-	-		That Are OBL, FACW, or FAC: 1 (A)
3.	-	-		Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species <u>0</u> <u>x 1 = 0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 100 x 2 = 200
1				FAC species <u>0</u> x 3 = <u>0</u>
2				FACU species 0 x 4 = 0
3				UPL species 0
4.				Column Totals: 100 (A) 200 (B)
5.				Prevalence Index = B/A = 2
6.				Hydrophytic Vegetation Indicators:
7				X 1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Cyperus strigosus	100	Yes	FACW	data in Remarks or on a separate sheet)
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	100	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)		_		
1.				
2.				Hydrophytic
3.				Vegetation Present? Yes No
4.				1.000
·	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)		10141 0010		
Remarks: (Include photo numbers here or on a separate sheet.)				

Sampling Point: DP-054

SOIL Sampling Point: DP-054 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/2 70 7.5YR 5/8 30 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: Area has been rutted up and disturbed

South Ripley Sol	lar and Storage Projec	t	City/Count	y: Chautauq	ua County	Sampling Date:	Aug 6, 2020	0
Connectgen Ope	erating LLC				State: NY	Sampling Point:	DP-048	
			Section, Tov	wnship. Range:	Town of Ripley	_		
	Hillslone					•	Slone (%)	2
•	Пізіоро						• • • —	
				N LOI	•			D03
							oed	
=		· ·			(If no, explain i	n Remarks.)		
, Soil	, or Hydrology	signific	antly disturbed?	Are '	"Normal Circumstances"	present? Yes	<u>x</u> No	
, Soil	, or Hydrology	natural	ly problematic?	(If ne	eded, explain any answ	ers in Remarks.)		
ARY OF FINDI	NGS – Attach si	te map sh	owing samp	oling point lo	ocations, transects	s, important feat	tures, etc.	
etation Present?	Yes	No	x	Is the Sampled	Area			
ent?	Yes	No				No>	<u>x</u>	
gy Present?	Yes	No		If yes, optional W	Vetland Site ID:			
					Secondar	/ Indicators / minimum	of two require	۷/
	- !- rage: rade abook all	that annly)				·	OI IWO IEquired	3)
•	is required; check all t		sinod Loaves (R	0)				
	_	_	·	9)				
	_	-					ı	
s (B1)	_			21)				
eposits (B2)	_			-			nagery (C9)	
ts (B3)	_		•					
Crust (B4)	_	Recent In	on Reduction in	Tilled Soils (C6)		·	,	
ts (B5)	_	Thin Mucl	k Surface (C7)		Shallow	Aquitard (D3)		
	_	Other (Ex	plain in Remark	.s)				
getated Concave S	Surface (B8)				FAC-Ne	utral Test (D5)		
ons:								
resent?	Yes Nox		nches):					
resent? sent?	Yes No x	Depth (ir	nches):		Wetland Hydrology Pro	esent? Yes	No	x
resent? sent? nt?		Depth (ir	nches):		Wetland Hydrology Pro	esent? Yes	No	<u>x</u>
resent? sent? nt? y fringe)	Yes Nox Yes Nox	Depth (ir	nches): nches):			esent? Yes	No	х
resent? sent? nt? y fringe)	Yes No x	Depth (ir	nches): nches):			esent? Yes	No	<u>x</u>
resent? sent? nt? y fringe)	Yes Nox Yes Nox	Depth (ir	nches): nches):			esent? Yes	No	<u>x</u>
	Connectgen Ope James Ireland , terrace, etc.): MLRA): e: VoB - Volusia logic conditions on , Soil , Soil ARY OF FINDI etation Present? ent? gy Present? alternative proced at on hillslope adj orgy Indicators: s (minimum of one ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ss (B5) //sible on Aerial Im	Connectgen Operating LLC James Ireland , terrace, etc.): Hillslope MLRA): e: VoB - Volusia channery silt loam; 0 logic conditions on the site typical for this, Soil, or Hydrology, Soil, or Hydrology, Soil, or Hydrology, Soil, or Hydrology ARY OF FINDINGS - Attach sine teation Present? Yes ent? Yes gy Present? Yes alternative procedures here or in a separation on hillslope adjacent to road. Small ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	James Ireland , terrace, etc.): Hillslope MLRA): Le: VoB - Volusia channery silt loam; 0 to 8 percent silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the site typical for this time of years and silt logic conditions on the silt logic conditions on the silt logic conditions on the silt logic conditions on the silt logic conditions on the silt logic conditions on the silt logic conditions on the silt logic cond	Connectgen Operating LLC James Ireland Section, Toward, terrace, etc.): Hillslope Local relief of MLRA): Lat: 42.184003° of the second slopes logic conditions on the site typical for this time of year? Yes , Soil, or Hydrology significantly disturbed?, Soil, or Hydrology significantly problematic? ARY OF FINDINGS — Attach site map showing sample attain Present? Yes No x Pertation Present? Yes No x Int? Yes No x Int? Yes No x Interpretative procedures here or in a separate report.) It on hillslope adjacent to road. Small upland island in corner of the second site of the secon	Connectgen Operating LLC James Ireland	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Local relief (concave, convex, none): Convex MLRA): Lat: 42.184003*N Long: 79.752187*W E: VoB - Volusia channery silt loam; 0 to 8 percent slopes Invited and silt silt silt silt silt silt silt silt	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Local relief (concave, convex, none): Convex MLRA): Lat: 42.184003°N Long: 79.752187°W EVAB-Volusia channery silt loam; 0 to 8 percent slopes NWI classification: Not Mapp logic conditions on the site typical for this time of year? Yes Soil, or Hydrologysignificantly disturbed? ARY OF FINDINGS – Attach site map showing sampling point locations, transects, important feat station Present? YesNo Is the Sampled Are within a Wetland? YesNo If yes, optional Wetland Site ID: Alternative procedures here or in a separate report.) It on hillslope adjacent to road. Small upland island in corner of wetland Description: Set (A1)	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Letrace, etc.): Hillislope Local relief (concave, convex, none): Convex Slope (%): MLRA): Lat: 42.184003*N Long: 79.752187*W Datum: NA e: VoB - Volusia channery silt loam; 0 to 8 percent slopes NNI classification: Not Mapped logic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes x No (If needed, explain any answers in Remarks.) ARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. setation Present? Yes No X If yes, optional Wetland? If yes, optional Wetland Site ID: alternative procedures here or in a separate report.) to nhillslope adjacent to road. Small upland island in corner of wetland Day Indicators: Secondary Indicators (minimum of two required set) To hillslope adjacent to road. Small upland island in corner of wetland Day Indicators: Secondary Indicators (minimum of two required set) To hillslope adjacent to road. Small upland island in corner of wetland Day Indicators: Secondary Indicators (minimum of two required set) Secondary Indicators (minimum of two required set) To hillslope adjacent to road. Small upland island in corner of wetland Day Indicators: Secondary Indicators (minimum of two required set) Secondary Indicators (minimum of two required set) Moss Trim Lines (B16) Day Season Water Table (C2) Crayfish Burrows (C8) Seturation Visible on Aerial Imagery (C9) Ist (B3) Presence of Reduced Iron (C4) Sututed or Stressed Plants (D1) Crust (B4) Recent Iron Reduction in Tilled Solls (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)

							Point: DP-04	_
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
Acer saccharum	70	Yes	FACU	Number of Domi That Are OBL, F.			0	(A)
2. Fagus grandifolia	30	Yes	FACU				<u> </u>	_(' ')
3.				Total Number of Species Across			4	(B)
<u> </u>							· ·	_(=)
4				Percent of Domin			0	(A/B
5				,	- ,		-	_(, , _
6.				Prevalence Inde	ex worksheet:			
7				Total % Co			lultiply by:	_
	100	= Total Cover		OBL species	0			
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
I Fagus grandifolia	20	Yes	FACU	FAC species	0	_'	0	
2.				FACU species	120	•	480	
3				UPL species	25	•		
4.				Column Totals:	145	_ (A)	605	(B)
				Prevalenc	e Index = B/A =	4.17		
5				Usalzanbidia Va	matation Indian	4		
6				Hydrophytic Ve	est for Hydrophy		tation	
					nce Test is >50%		idioi i	
	20	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			ıg
. Lycopodium X issleri	25	Yes	UPL	data in i	Remarks or on a	ı separat	e sneet)	
2				Problemation	Hydrophytic Ve	egetation	¹ (Explain)	
3				¹ Indicators of hy	dric soil and wet	land hyd	Irology must	
				be present, unles				
4 5				Definitions of V	egetation Strat	a·		
o					_		ra in diamatar	
5. <u> </u>				Tree – Woody pl at breast height	•	,		
(_	
3				Sapling/shrub - and greater than				
9					•			,
10.				Herb – All herba size, and woody				OĪ
11				-				
12.				Woody vines – height.	All woody vines	greater t	nan 3.26 il in	
	25	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
2				Vegetation				
3				Present?	Yes _	١	No <u>x</u>	
4								
	0	= Total Cove	er.					

SOIL Sampling Point: DP-048 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 4/3 90 7.5 YR 4/6 10 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Pro	oject		City/Coun	ity: Chauta	auqua Coun	nty	Sampling Date:	Aug 6, 2020
Applicant/Owner:	Connectgen Op	perating LLC						State: NY	Sampling Point:	DP-049
Investigator(s):	James Ireland				Section, To	ownship, Range	: <u>Tow</u>	n of Ripley		
Landform (hillslope,	, terrace, etc.):	Depression			Local relief	f (concave, conv	vex, none):	Concave	<u>:</u>	Slope (%): 2
Subregion (LRR or	MLRA):				Lat: 42.185227°	°N I	Long: 79.7	754468°W		Datum: NAD83
Soil Map Unit Name	e: VoA - Volus	sia channery silt loan	n; 0 to	3 perce	nt slopes			NWI cla	assification: Not Mapp	ped
Are climatic / hvdro	ologic conditions c	on the site typical for	this tir	ne of ve	ear? Yes	x No	0	(If no, explain	in Remarks.)	
-	-	, or Hydrology		-				Circumstances	•	x No
									•	
		, or Hydrology			urally problematic?				wers in Remarks.) ts, important feat	tures, etc.
Hydrophytic Vege	etation Present?	Yes	х	No		Is the Sample	ed Area			
Hydric Soil Prese		Yes	x	_ No		within a Wetl		Yes	x No	
Wetland Hydrolog		Yes _	х	_ No		If yes, optiona	al Wetland S	Site ID:	013	
HADBOI OCA										
HYDROLOGY Watland Hydrolo								Sacanda	Indiastora (minimum	-f two required)
Wetland Hydrolo		- is required, shook	>∥ tho	+ === u/					ry Indicators (minimum	of two required)
		e is required; check	all tha						e Soil Cracks (B6)	
Surface Wat			_		-Stained Leaves (E	39)			ge Patterns (B10)	
High Water				-	c Fauna (B13)				rim Lines (B16)	
Saturation (A	•				eposits (B15)	(04)			ason Water Table (C2)	
Water Marks Sediment De			_		gen Sulfide Odor (ed Rhizospheres (· (C3)		h Burrows (C8) tion Visible on Aerial Im	2220n/(Ca)
Drift Deposit					nce of Reduced Iro	=	(03)		d or Stressed Plants (D	
Algal Mat or					t Iron Reduction in	` '	:6)		orphic Position (D2)	1)
Iron Deposit					Muck Surface (C7)	,	J		v Aquitard (D3)	
	Visible on Aerial Ir	magery (B7)			(Explain in Remar			_	ppographic Relief (D4)	
	egetated Concave					-,			eutral Test (D5)	
Field Observation										
Surface Water Pr		Yes No	х	Depth	ı (inches):					
Water Table Pres	sent?	Yes No	х	Depth	ı (inches):		Wetland	d Hydrology P	resent? Yes	<u>к</u> Nо
Saturation Preser		Yes No			n (inches):					
(includes capillary		gauge, monitoring we	all nor	-ial abot	aroulous inens	-tional if avails	- lala ,			
Describe Records	ed Data (stream g	jauge, monitoring we	eii, aer	iai pnote	os, previous inspe	etions), if availa	abie:			
Remarks:										

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
·		Ороской.	Otatao	Number of Domi		
1				That Are OBL, F	ACW, or FAC:	(A)
2				Total Number of	Dominant	
3				Species Across	All Strata:	(B)
4				Percent of Domi		
5				That Are OBL, F	ACW, or FAC:	(A/B
6						
7.				Prevalence Inde Total % Co		Multiply by:
		= Total Cover		OBL species	90	x 1 = 90
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 = 0
· · ·				FAC species	0	
1				FACU species	30	x 4 = 120
2				UPL species	0	x 5 = 0
3				Column Totals:	120	(A) <u>210</u> (B)
4						
5				Prevalenc	e Index = B/A =	1.75
6				Hydrophytic Ve	getation Indica	tors:
7					est for Hydrophy	
					nce Test is >50%	
erb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevale		ons ¹ (Provide supporting
						a separate sheet)
1. Carex vulpinoidea	30	Yes	OBL			4
2. Juncus pylaei	20	No	OBL	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
3. Scirpus atrovirens	30	Yes	OBL	1		land hydrology must
4. Carex flava	10	No	OBL	be present, unle	ss disturbed or p	problematic.
5. Potentilla simplex	20	No	FACU	Definitions of V	egetation Strat	a:
6. Trifolium pratense	10	No	FACU	Tree – Woody p	lants 3 in. (7.6 ci	m) or more in diameter
				at breast height	(DBH), regardles	ss of height.
8.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH
9.				and greater than		
				Herb – All herba	iceous (non-woo	dy) plants, regardless of
10				size, and woody		
11				Woody vines –	All woody vines	greater than 3.28 ft in
12				height.		-
	120	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
I						
2				Hydrophytic		
				Vegetation	V	Y No.
ა. 				Present?	Yes _	No
4						
	0	= Total Cove	r			

SOIL Sampling Point: DP-049 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/2 70 7.5YR 5/8 30 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	uqua County		Sampling Date:	Aug 6, 2020
Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-050
James Ireland			Section, To	ownship, Range:	Town of	Ripley		
, terrace, etc.):	Terrace		Local relie	ef (concave, conv	ex, none):	Convex		Slope (%): 2
MLRA):			Lat: 42.195172	2°N L	ong: 79.74629	99°W	_	Datum: NAD83
	gravelly sandy loa	m: 0 to 3 per	cent slones				cation: Not Mann	ned
			•	v No	/If n	_		
_		-		<u> </u>				
								x No
					•			tures, etc.
otation Present?	Yes	Nc.	Y	Is the Sample	d Area			
	_					Yes	No >	x
				If ves. optional	Wetland Site II)· —		<u> </u>
* P 6						2	/ !ala	
					_		·	of two required)
•	is required; check							
ter (A1)		_	•	(B9)		_		
Table (A2)								
·				(24)		_		
			-		(00)	-		(00)
			•	=	(C3)	_		
						_	•	1)
				· ·	<u> </u>	- '	` '	
	nagery (B7)					_		
			(1 2 2 2 2	-,	_	_		
ons:	-						-	,
esent?	Yes No	x Dept	th (inches):					
sent?	Yes No	x Dept	th (inches):		Wetland Hyd	Irology Prese	ent? Yes	No
	Yes No	x Dept	th (inches):					
		-11			h.l			
d Data (stream ga	auge, monitoring we	eli, aeriai pho	tos, previous inspe	ections), if availa	DIE:			
				·				
	Connectgen Ope James Ireland , terrace, etc.): MLRA): e: Daa - Duane logic conditions or , Soil , Soil ARY OF FIND etation Present? ent? gy Present? alternative proced t in rutted up fie proceder (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) crust (B4) s (B5) displayed and concave soms: esent? esent? fringe)	Connectgen Operating LLC James Ireland terrace, etc.): Terrace MLRA): E: Daa - Duane gravelly sandy loan logic conditions on the site typical for , Soil, or Hydrology , Soil, or Hydrology ARY OF FINDINGS — Attach etation Present? Yes ent? Yes alternative procedures here or in a set in rutted up field near intersection tin rutted up field near intersection as (B1) Experimental procedures (B2) Experimental procedures (B3) Crust (B4) Experimental procedures (B8) Signature (B8)	Connectgen Operating LLC James Ireland , terrace, etc.): Terrace MLRA): : Daa - Duane gravelly sandy loam; 0 to 3 pero logic conditions on the site typical for this time of y , Soil, or Hydrologysign, Soil, or Hydrologynat ARY OF FINDINGS - Attach site map etation Present? Yes No gy Present? Yes No alternative procedures here or in a separate report in rutted up field near intersection pgy Indicators: s (minimum of one is required; check all that apply) ter (A1)	Connectgen Operating LLC James Ireland Section, T , terrace, etc.): Terrace Local relie MLRA): Lat: 42.195172 Be: Daa - Duane gravelly sandy loam; 0 to 3 percent slopes logic conditions on the site typical for this time of year? Yes , Soil, or Hydrologysignificantly disturbed, Soil, or Hydrologynaturally problematic ARY OF FINDINGS — Attach site map showing sand Betation Present? Yes Nox Betation Present? Yes Nox Betation Present? Yes Nox Betation Present? Yes Nox Betation Present? Yes Nox Betation Present? Yes No	ARY OF FINDINGS - Attach site map showing sampling point	Connectgen Operating LLC James Ireland Section, Township, Range: Town of I terrace, etc.): Terrace Local relief (concave, convex, none): MLRA): Lat: 42.195172*N Long: 79.74625 Boa - Duane gravelly sandy loam; 0 to 3 percent slopes logic conditions on the site typical for this time of year? Yes	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Terrace, etc.): Terrace Local relief (concave, convex, none): Convex MLRA): Lat: 42.195172*N Long: 79.746299*W E: Daa - Duane gravelly sandy loam; 0 to 3 percent slopes NWI classific logic conditions on the site typical for this time of year? Yes No	Connectgen Operating LLC James Ireland Section, Township, Range: Town of Ripley Letrace, etc.): Terrace Local relief (concave, convex, none): Lat: 42.195172*N Long: 79.746299*W E. Daa - Duane gravelly sandy loam; 0 to 3 percent slopes MRA): Lat: 42.195172*N Long: 79.746299*W E. Daa - Duane gravelly sandy loam; 0 to 3 percent slopes MNI of the site typical for this time of year? Yes As No (Iff no, explain in Remarks.) Logic conditions on the site typical for this time of year? Yes As No (Iff no, explain in Remarks.) Logic conditions on the site typical for this time of year? Yes Soil or Hydrology and reliably problematic? Iff needed, explain any answers in Remarks.) ARY OF FINDINGS – Attach site map showing sampling point locations, transects, important feat within a Wetland? ARY OF FINDINGS – Attach site map showing sampling point locations, transects, important feat station Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Iff yes, optional Wetland Site ID: alternative procedures here or in a separate report.) It in rutted up field near intersection Secondary Indicators (minimum of one is required; check all that apply) Ere (A1) Surface Soil Cracks (86) Drainage Patterns (810) And Deposits (815) Dry-Season Weter Table (C2) Aquatic Fauna (813) Moss Trim Lines (816) Ago Aquatic Fauna (813) Moss Trim Lines (816) Dry-Season Weter Table (C2) Advisible on Aerial Imagery (87) Dry-Season Presence of Reduced Iron (C4) Stunted or Stressed Plants (D Crust (84) Recent fron Reduction in Titled Soils (C6) Geomorphic Position on Aerial Imagery (B7) Other (Explain in Remarks) Metland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes Metland

Tree Stratum (Plot size: 30 ft.) 1	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2		ороског.	Ciaias	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3				That Are OBL, FACW, or FAC: 0 (A)
4				Total Number of Dominant Species Across All Strata: 1 (B)
5				
*				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0 x 2 = 0
1	_			FAC species <u>0</u> x 3 = <u>0</u>
2.				FACU species 105 x 4 = 420
3.				UPL species 0 $x = 0$
4				Column Totals: 105 (A) 420 (B)
5.				Prevalence Index = B/A = 4
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Plantago lanceolata	 85	Yes	FACU	data in Remarks or on a separate sheet)
Symphyotrichum ericoides	20		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Solidago canadensis			FACU	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	110	= Total Cover		- 3 "
Woody Vine Stratum (Plot size: 30 ft.)	. 10			
1.	_			
···				Hydrophytic
2				Vegetation
2.				Present? Yes NoX
3				
		= Total Cove	_	

SOIL Sampling Point: DP-050 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks:

Project/Site:	South Ripley So	lar and Storage Pro	ject	City/Count	y: Chauta	uqua County		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State:	: NY	Sampling Point:	DP-051	
Investigator(s):	James Ireland			Section, Tov	wnship, Range:	Town of F	Ripley	-		
		Terrace			(concave, conv	•	Convex	•	Slope (%):	1
Landform (hillslope,	•				,			`		1 N D 0 2
Subregion (LRR or I	MLRA):	LRR R		Lat: 42.195384°	N L	ong: 79.74599	i6°W		Datum: NA	4D83
Soil Map Unit Name	: Daa - Duane	gravelly sandy loar	n; 0 to 3 percer	nt slopes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions or	the site typical for	this time of yea	r? Yes	x No	(If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	icantly disturbed?	Ar	re "Normal Circu	ımstances" pro	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natura	ally problematic?	(If	needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	howing samp	pling point	locations, ti	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes _	x No		Is the Sample	d Area				
Hydric Soil Presei	nt?	Yes	x No		within a Wetla	and?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optional	Wetland Site ID	D: 015			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	idicators (minimum	of two require	ed)
_		e is required; check	all that apply)				-	il Cracks (B6)	<u> </u>	
Surface Water				Stained Leaves (B	9)		-	atterns (B10)		
High Water 1				Fauna (B13)	,		-	Lines (B16)		
Saturation (A	43)		Marl De	posits (B15)			_ Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)		Hydroge	en Sulfide Odor (C	C1)		Crayfish Bu	ırrows (C8)		
Sediment De	eposits (B2)		Oxidized	d Rhizospheres or	n Living Roots	(C3)	_ Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Presence	ce of Reduced Iron	n (C4)	_	-	Stressed Plants (D	1)	
Algal Mat or				Iron Reduction in	Tilled Soils (C6	6) <u>x</u>	•	c Position (D2)		
Iron Deposits	• •	(D-)		ick Surface (C7)			Shallow Aq			
	isible on Aerial Im		Other (E	Explain in Remark	(s)	<u>X</u>	_	raphic Relief (D4)		
	getated Concave S	Surface (B8)			<u> </u>	<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observatio		V No	Donth	/ -b - s\.						
Surface Water Pre		Yes No No No		(inches):		Wetland Hyd	Irology Dress	ent? Yes x	x No	
Saturation Presen		Yes No				Welland my	Tology 1 1000	iit: 103		
(includes capillary		165 110 _	X Dopui,	,IIICHES).						
	<u> </u>	auge, monitoring we	ell, aerial photos	s, previous inspec	ctions), if availa	ble:				
<u> </u>										
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
				Number of Domi That Are OBL, F		3 (A)
2.						
3.				Total Number of Species Across		4 (B)
						(=/
4				Percent of Domi That Are OBL, F		75 (A/E
5				·		
6.				Prevalence Inde		
7				Total % Co		Multiply by:
	0	= Total Cover		OBL species		x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0	x 2 = 230 x 3 = 0
1. Cornus alba	45	Yes	FACW	FACU species	40	
2. Salix discolor	40	Yes	FACW	UPL species	0	
3.				Column Totals:	155	(A) 390 (E
4						<u> </u>
5				Prevalenc	e Index = B/A =	2.51
6.				Hydrophytic Ve	getation Indica	tors:
7					est for Hydrophy	
		T 0		X 2 - Domina		
erb Stratum (Plot size: 5 ft.)	85	= Total Cover		X 3 - Prevaler		ons ¹ (Provide supporting
		Vaa	EACW.			a separate sheet)
1. Mentha arvensis	30	Yes	FACW	5		1
2. Solidago canadensis	40	Yes	FACU			egetation ¹ (Explain)
3						tland hydrology must
4				be present, unle	ss disturbed or p	orobiematic.
5				Definitions of V	egetation Strat	a:
6				1	•	m) or more in diameter
7				at breast height	(DBH), regardles	ss of height.
8.				1		ess than 3 in. DBH
9				and greater than	or equal to 3.28	3 ft (1 m) tall.
10.						ody) plants, regardless of
11.				size, and woody		
12.				Woody vines – height.	All woody vines	greater than 3.28 ft in
	70	= Total Cover		g		
Voods Vine Stratum (Diet size, 20 ft)		_ Total Cover				
/oody Vine Stratum (Plot size: 30 ft.)						
l				Hydrophytic		
2				Vegetation		
3				Present?	Yes _	No
4.						

SOIL Sampling Point: DP-051 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) Texture Remarks 0-20 10YR 3/2 7.5 YR 4/6 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State	e: NY	Sampling Point:	DP-052	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Terrace			f (concave, con		Convex		Slope (%):	2
	•				•	•			• • •	
Subregion (LRR or I	-	LRR R		Lat: 42.195543	<u>°N</u>	Long: 79.74583			Datum: N	AD63
Soil Map Unit Name	: Daa - Duane	gravelly sandy loam; 0	to 3 percer	nt slopes			_ NWI classifi	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions on	n the site typical for this	time of yea	ar? Yes	X No	o (If no	no, explain in R	lemarks.)		
Are Vegetation	, Soil <u>x</u>	or Hydrology	signif	icantly disturbed	l? A	Are "Normal Circu	umstances" pr	esent? Yes	<u>x</u> No	,
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (I	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach sit	e map s	howing sam	npling point	locations, t	ransects,	important feat	tures, etc.	,
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog	y Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID	D:			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
_		e is required; check all tl	hat apply)				-	il Cracks (B6)		
Surface Water				Stained Leaves (I	B9)		_	atterns (B10)		
High Water 1		_	_	Fauna (B13)	,	_	_	Lines (B16)		
Saturation (A	1 3)	_	Marl De	posits (B15)		_	Dry-Seasor	n Water Table (C2))	
Water Marks	; (B1)	_	Hydroge	en Sulfide Odor ((C1)	_	Crayfish Bu	ırrows (C8)		
Sediment De	posits (B2)	_	Oxidized	d Rhizospheres	on Living Roots	(C3)	_ Saturation '	Visible on Aerial Im	nagery (C9)	
Drift Deposits	-	_		ce of Reduced Ire		_	_ Stunted or	Stressed Plants (D	1)	
Algal Mat or	* *	_	_	Iron Reduction in	,	·6)		c Position (D2)		
Iron Deposits		_		uck Surface (C7)		_	_ Shallow Aq			
	isible on Aerial Im		Other (E	Explain in Remar	rks)			raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio		V - Ne v	Donth	e -1						
Surface Water Pre		Yes No x				Matland Hye	-land Droce		No	
Water Table Present Saturation Present		Yes No x Yes No x				Wellanu riyo	drology Prese	ent? Yes	No _	<u> </u>
(includes capillary		res NOA	рерии	(Inches).						
, ,	<u> </u>	auge, monitoring well, a	erial photo	s, previous inspe	ections), if availa	able:				
5										
Remarks: No wetland hydrolo	gy observed									
	0,									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	ороског.	Ciaido	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				That Are OBL, I ACW, OF I AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	2 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	0(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1					x 3 = 0
2					x 4 = 400
3					x = 0 (A) 400 (B)
4.				Column Totals: 100	(A) <u>400</u> (B)
5.				Prevalence Index = B/A = 4	
6.				Hydrophytic Vegetation Indicator	rs:
7				1 - Rapid Test for Hydrophytic	: Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations	¹ (Provide supporting
Plantago lanceolata	50	Yes	FACU	data in Remarks or on a se	eparate sheet)
Solidago canadensis	50	Yes	FACU	Problematic Hydrophytic Vege	etation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetlar	nd hydrology must
4.				be present, unless disturbed or pro	blematic.
5.				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7				at breast height (DBH), regardless	of height.
8.				Sapling/shrub - Woody plants les	s than 3 in. DBH
9.				and greater than or equal to 3.28 ft	(1 m) tall.
10.				Herb – All herbaceous (non-woody	, .
11.				size, and woody plants less than 3.	
12.				Woody vines – All woody vines green height.	eater than 3.28 ft in
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		•			
1					
2.				Hydrophytic	
3.				Vegetation Present? Yes	Nox
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					
,					

SOIL Sampling Point: DP-052 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: In a rutted up field No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-054	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, conv		Concave	•	Slope (%):	2
, ,	•				•	,			· · · · -	
Subregion (LRR or		LRR R		Lat: 42.195162°	°N ı	Long: 79.74331			Datum: NA	4D03
Soil Map Unit Name	ErA - Erie ch	nannery silt loam; 0 t	to 3 percent s	lopes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ear? Yes	X No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soilx	, or Hydrology	sign	nificantly disturbed	? A	Are "Normal Circu	mstances" pre	esent? Yes	X No	'
Are Vegetation	, Soil	, or Hydrology	natı	urally problematic?	? (If	f needed, explain	ı any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, i	important feat	tures, etc.	·
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No	_	If yes, optiona	al Wetland Site ID	D: 015			
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		e is required; check	all that apply)	i				il Cracks (B6)		, , , , , , , , , , , , , , , , , , ,
Surface Wat		710.1040		-Stained Leaves (E	B9)	×	-	atterns (B10)		
High Water				ic Fauna (B13)	,		-	Lines (B16)		
Saturation (A				Deposits (B15)			_	n Water Table (C2))	
Water Marks	s (B1)		Hydro	gen Sulfide Odor ((C1)	_	Crayfish Bu	irrows (C8)		
Sediment De	eposits (B2)		Oxidiz	ed Rhizospheres o	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)		Prese	nce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	* *			nt Iron Reduction in	· ·	(6) <u>x</u>	•	c Position (D2)		
Iron Deposits	• ,			Muck Surface (C7)		_	Shallow Aqu	-		
	isible on Aerial Im		Other	(Explain in Remar	ks)	<u>X</u>	_	raphic Relief (D4)		
	getated Concave	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observatio		· · · Na	D#							
Surface Water Pro		Yes No				Wetland Hyd	Droce		No	
Water Table Pres Saturation Preser		Yes No No No		h (inches):		Welland myd	rology Fiese	ent? Yes x	<u>x No</u>	
(includes capillary		Yes INC _	X Debu	1 (Inches).						
<u> </u>		auge, monitoring we	ell, aerial phot	tos, previous inspe	ections), if availa	able:				
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:	
·		Орсскоз:	Otatus	Number of Domina		
l				That Are OBL, FA	CW, or FAC:	1(A)
2				Total Number of D	ominant	
3.				Species Across Al	l Strata:	1(B)
4. <u> </u>				Percent of Domina	ant Species	
5.				That Are OBL, FA	CW, or FAC:	(A/B)
6						
7.				Prevalence Index Total % Cove		Multiply by:
		= Total Cover		OBL species		x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species		x 2 = 200
				FAC species	0	
l				FACU species	0	· · · · · · · · · · · · · · · · · · ·
2				UPL species	0	
3.				Column Totals:	100	(A) <u>200</u> (B)
4						
5.				Prevalence	Index = B/A =	2
6.				Hydrophytic Veg	etation Indica	tors:
7.				X 1 - Rapid Tes	st for Hydrophy	rtic Vegetation
				X 2 - Dominano		
	0	= Total Cover		X 3 - Prevalence		
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting separate sheet)
Cyperus strigosus	100	Yes	FACW		Ja	ooparato erroet,
2.				Problematic I	Hydrophytic Ve	egetation ¹ (Explain)
3.				¹ Indicators of hydr	ic soil and wet	land hydrology must
4				be present, unless	disturbed or p	roblematic.
5.				Definitions of Veg	getation Strat	a:
					_	m) or more in diameter
6.				at breast height (D	· ·	
7						ess than 3 in. DBH
8.				and greater than o		
9					·	,
10				size, and woody pl		dy) plants, regardless of 3.28 ft tall.
11						
12				height.	i woody vines (greater than 3.28 ft in
	100	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)						
				Hydrophytic		
2				Vegetation		
3.				Present?	Yes _	No
4.			_			
4.	0	= Total Cove	Γ			

SOIL Sampling Point: DP-054 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 5/8 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: Area has been rutted up and disturbed

Project/Site:	South Ripley So	olar and Storage	Project		City/Cour	nty: Chauta	uqua County		Sampling Date:	Aug 7, 2020
Applicant/Owner:	Connectgen Op	erating LLC					Sta	ate: NY	Sampling Point:	DP-056
Investigator(s):	James Ireland				Section, To	ownship, Range	: Town	of Ripley		
Landform (hillslope,	, terrace, etc.):	Hillslope			Local relief	ef (concave, conv	/ex, none):	Convex	:	Slope (%): 2
Subregion (LRR or	MLRA):	LRR R			Lat: 42.196014	ŀ°N L	Long: 79.740	0394°W		Datum: NAD83
Soil Map Unit Name		e gravelly sandy	loam: 0 to	n 3 nerce				NWI classi	fication: Not Mapp	ned
·						v No				, ou
Are climatic / hydrol	_	• •		-				If no, explain in	•	
	, Soil >						re "Normal Ci	ircumstances" p	present? Yes	x No
	ARY OF FIND		·					lain any answe	rs in Remarks.) important feat	ures, etc.
Hydrophytic Vogs	otation Propent?	Vor		No		lo the Sample				
Hydrio Soil Broom		Yes		_ No No	x	Is the Sample within a Wetla		Yes	No :	(
Hydric Soil Prese Wetland Hydrolog		Yes Yes		No	X	If yes, optiona	I Wetland Site	a ID.		
Remarks: (Explain	-		'			ii yes, optiona	- Wetland Oile	——————————————————————————————————————		
HYDROLOGY										
Wetland Hydrolo	gy Indicators:							Secondary	Indicators (minimum	of two required)
Primary Indicators		e is required: che	eck all the	at apply)			•		oil Cracks (B6)	, ,
Surface Wat					Stained Leaves (F	B9)			Patterns (B10)	
High Water			_)	c Fauna (B13)	20)	•		Lines (B16)	
Saturation (A					eposits (B15)		•		on Water Table (C2)	
Water Marks	•			y .	gen Sulfide Odor ((C1)	•		Burrows (C8)	
Sediment De			_		ed Rhizospheres		(C3)		Visible on Aerial Im	agery (C9)
Drift Deposit				,	ce of Reduced Iro	_			r Stressed Plants (D	
Algal Mat or	Crust (B4)		_	Recent	Iron Reduction ir	n Tilled Soils (Co	6)	Geomorph	nic Position (D2)	
Iron Deposits	s (B5)		_	Thin M	uck Surface (C7)	1	,	Shallow A	quitard (D3)	
Inundation V	isible on Aerial In	nagery (B7)	_	Other (Explain in Remar	rks)		Microtopo	graphic Relief (D4)	
Sparsely Ve	getated Concave	Surface (B8)						FAC-Neut	ral Test (D5)	
Field Observatio										
Surface Water Pro		Yes N								
Water Table Pres		Yes N					Wetland H	Hydrology Pres	sent? Yes	No x
Saturation Preser		Yes N	lo <u>x</u>	_ Depth	(inches):					
(includes capillary Describe Recorde		nauge monitoring	a well ae	rial photo	ne previous inspe	ections) if avails	ahla:			
Describe Records	o Data (Stream g	auge, monitoring	j well, ael	nai prioto	s, previous irispe	scholis), il avalla	ible.			
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1	70 00001	Ороской.	Ciaiao	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.	_			That Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4	_			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species $0 x 2 = 0$
1				FAC species <u>0</u> x 3 = <u>0</u>
2	_			FACU species 45 x 4 = 180
3				UPL species 0 $x = 0$
4.				Column Totals: 45 (A) 180 (B)
5.				Prevalence Index = B/A = 4
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Solidago canadensis	_ 25	Yes	FACU	data in Remarks or on a separate sheet)
Plantago lanceolata	20	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	45	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)	_	_		
1				
2.				Hydrophytic
3				Vegetation
4.				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate shee				
, , , , , , , , , , , , , , , , , , , ,	,			

SOIL Sampling Point: DP-056 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 70 7.5YR 5/8 MS Silty Clay Loam 0-20 10YR 3/2 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: Soils have been rutted up No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 7, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-057	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	Ripley	-		
Landform (hillslope,		Depression			f (concave, con		Concave		Slope (%):	1
		•							· · · · -	1 D02
Subregion (LRR or	-	LRR R		Lat: 42.195611	<u>°N</u>	Long: 79.73978			Datum: NA	4D02
Soil Map Unit Name	ErA - Erie ch	nannery silt loam; 0	to 3 percent s	slopes			NWI classifi	ication: Not Mapp	ped	
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of y	ear? Yes	<u>x</u> N	o (If n	o, explain in F	temarks.)		
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	? A	Are "Normal Circu	ımstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	nat	turally problematic?	? (1	f needed, explair	n any answers	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes _	X No)	Is the Sample	ed Area				
Hydric Soil Prese	nt?	Yes	x No)	within a Wet	land?	Yes	<u>x</u> No		
Wetland Hydrolog	gy Present?	Yes	x No	,	If yes, optiona	al Wetland Site II): WL-	-015		_
HYDROLOGY										
Wetland Hydrolo	ay Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
_		e is required; check	all that apply	Λ				il Cracks (B6)		, , , , , , , , , , , , , , , , , , ,
Surface Wat		710 1040		r-Stained Leaves (E	B9)	x	-	Patterns (B10)		
High Water			_	tic Fauna (B13)	,		_	Lines (B16)		
Saturation (A				Deposits (B15)			_	n Water Table (C2))	
Water Marks	s (B1)		x Hydro	ogen Sulfide Odor ((C1)		Crayfish Bu	urrows (C8)		
Sediment De	eposits (B2)		Oxidiz	zed Rhizospheres	on Living Roots	(C3)	Saturation	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)		Prese	ence of Reduced Iro	on (C4)	<u> x</u>	Stunted or	Stressed Plants (D	1)	
Algal Mat or	` '			nt Iron Reduction ir	n Tilled Soils (C	(6) <u>x</u>		ic Position (D2)		
Iron Deposits				Muck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other	r (Explain in Remar	·ks)	<u>X</u>		raphic Relief (D4)		
	getated Concave	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observatio			Б.,							
Surface Water Pro		Yes No				W. dan dillion		:0 V	NI-	
Water Table Pres		Yes No		th (inches):		Wetland Hyd	drology Prese	ent? Yes <u>)</u>	x No	
Saturation Preser (includes capillary		Yes No	х рерг	th (inches):						
		auge, monitoring w	ell, aerial pho	otos, previous inspe	ections), if avail	able:				
Remarks: Scots pine- stresse	d/dead. gray dog	wood stressed								
, , , , , , , , , , , , , , , , , , ,	w. w. z. z. z. y z. z. z.									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
Pinus sylvestris	70	Yes	UPL	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2				mat Ale ODE, I AOW, OI I AO.	(A)
3.				Total Number of Dominant Species Across All Strata:	5 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6.					
7				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 70	x 1 = 70
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1. Cornus racemosa	60	Yes	FAC	FAC species 60	x 3 = <u>180</u>
2.				FACU species 30	x 4 = 120
3.				UPL species 70	x = 350
4				Column Totals: 230	(A) <u>720</u> (B)
5.				Prevalence Index = B/A = 3	3.13
6				Hydrophytic Vegetation Indicat	ors:
7				1 - Rapid Test for Hydrophyt	
				X 2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	60	= Total Cover		3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation	
Solidago canadensis	30	Yes	FACU	data in Remarks or on a	
Symphyotrichum puniceum	50	Yes	OBL	Problematic Hydrophytic Ve	getation ¹ (Explain)
Lythrum salicaria	20		OBL	¹ Indicators of hydric soil and wetl	
,		100	<u> </u>	be present, unless disturbed or pr	·
4				Definitions of Vegetation Strata	•
6				Tree – Woody plants 3 in. (7.6 cm	
_				at breast height (DBH), regardless	
7 8.				Sapling/shrub – Woody plants le	ess than 3 in. DBH
9				and greater than or equal to 3.28	
10				Herb – All herbaceous (non-wood	dy) plants, regardless of
10				size, and woody plants less than	3.28 ft tall.
11				Woody vines – All woody vines g	reater than 3.28 ft in
12	400	Total Cavar		height.	
Manda Vina Otastam (Districts 2004)	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes _	No
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separa	ate sheet.)				

SOIL Sampling Point: DP-057 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 0-6 10YR 2/1 10YR 5/1 70 Clay Loam 10YR 4/6 Clay Loam 7.5 YR 4/4 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	ar and Storage Project		City/Cour	nty: Chauta	uqua County		Sampling Date:	Aug 7, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-057	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of R	Ripley	•		
Landform (hillslope,		Terrace			f (concave, conv		Convex		Slope (%):	1
, ,	,				•				· · · · · -	V D83
Subregion (LRR or I		LRR R		_at: 42.195519	°N L	_ong: 79.739103			Datum: N	AD63
Soil Map Unit Name	ErA - Erie cha	annery silt loam; 0 to 3 p	ercent slop	es			NWI classific		ed	
Are climatic / hydrol	ogic conditions on	the site typical for this ti	me of year	? Yes	<u>x</u> No	(If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signific	cantly disturbed	l? A	re "Normal Circur	mstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natura	lly problematic?	? (If	needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach site	map sh	nowing sam	pling point	locations, tr	ansects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Presei		Yes	No _	х	within a Wetla		Yes	No >	×	
Wetland Hydrolog		Yes	No		If yes, optiona	I Wetland Site ID	c			
HYDROLOGY					_					
Wetland Hydrolo	ay Indicators:						Secondary In	dicators (minimum	of two requir	ed)
_		is required; check all that	at annly)				-	il Cracks (B6)	Of two roquii.	64)
Surface Water		15 Tequired, oncor an an		ained Leaves (F	Ra)		<u>-</u> 1	atterns (B10)		
High Water 1		_	-	amed Leaves (i Fauna (B13)	59,	_	Moss Trim I			
Saturation (A			-	oosits (B15)			<u>.</u> l	n Water Table (C2)	1	
Water Marks	•	_	•	n Sulfide Odor ((C1)	<u> </u>	Crayfish Bu			
Sediment De		_	-		on Living Roots	(C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)	_	Presence	e of Reduced Iro	on (C4)	<u> </u>	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent Ir	on Reduction ir	n Tilled Soils (Co	მ)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)	<u> </u>	Thin Muc	ck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other (Ex	xplain in Remar	·ks)	_		raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes Nox								
Water Table Pres		Yes No _x				Wetland Hydi	rology Prese	ent? Yes	No _	Х
Saturation Presen		Yes Nox	_ Depth (ii	nches):						
(includes capillary		auge, monitoring well, ae	rial photos	provious inspe	octions) if avails	hla.				
Describe Records	U Dala (Sircum go	luge, monitoring won, ac	ilai pilotoo,	, pievious mope	tilions), ii avano	.DIE.				
Remarks:										
No wetland hydrolo	gy observea									

Absolute % Cover 95	Dominant Species? Yes	Indicator Status FACU	Dominance Tes				
	Yes	FACU		nant Species			
		. 7100		ACW, or FAC:		0	(A)
			That Are OBL, 1	ACW, OIT AC.	-	0	_(^)
			Total Number of			0	(D)
			Species Across	All Strata:		2	_(B)
			Percent of Domin				
			That Are OBL, F	ACW, or FAC:		0	_(A/B
			Bassalana a la de				
					М	lultiply by:	
	= Total Cover		-				_
			1		=		
			•		•		_
							— (B)
				<u></u>			_ ,_
_	_	_	Prevalenc	e Index = B/A =	4		
			Hydrophytic Ve	getation Indica	tors:		
				_		tation	
0	= Total Cover						
							g
5	Yes	FACU	data in l	Remarks or on a	separat	e sheet)	
			Problemation	c Hydrophytic Ve	getation	¹ (Explain)	
			-				
			Definitions of V	egetation Strata	a:		
				•	•		
			at breast height	(DBH), regardles	s of heig	ght.	
			Sapling/shrub -	- Woody plants le	ess than	3 in. DBH	
			and greater than	or equal to 3.28	ft (1 m)	tall.	
			Herb – All herba	iceous (non-woo	dy) plant	ts, regardless	of
			size, and woody	plants less than	3.28 ft ta	all.	
			Woody vines –	All woody vines	greater th	han 3.28 ft in	
			height.				
5	= Total Cover						
			Hydrophytic				
			Vegetation				
			Present?	Yes _	^	lo <u>x</u>	
		r					
	95	95 = Total Cover 0 = Total Cover 5 Yes	95 = Total Cover 0 = Total Cover 5 Yes FACU	Prevalence Index Total % Co 95 = Total Cover 95 FACW species FAC species FAC species FACU species UPL species Column Totals: Prevalence Hydrophytic Ve 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morphol data in Problematie 1 Indicators of hy be present, unle Definitions of V Tree – Woody p at breast height Sapling/shrub - and greater than Herb – All herba size, and woody Woody vines – height. 5 = Total Cover	Prevalence Index worksheet: Total % Cover of: OBL species 0 FACW species 0 FACU species 100 UPL species 0 Column Totals: 100 Prevalence Index = B/A = Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophy 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptatio data in Remarks or on a Problematic Hydrophytic Vegetation Strate Indicators of hydric soil and wet be present, unless disturbed or p Definitions of Vegetation Strate Tree – Woody plants 3 in. (7.6 cr at breast height (DBH), regardles Sapling/shrub – Woody plants Is and greater than or equal to 3.28 Herb – All herbaceous (non-woo size, and woody vines - All woody vines of height. Hydrophytic Vegetation Hydrophytic Vegetation	Prevalence Index worksheet: Total % Cover of: Mobbus species Obbus Prevalence Index worksheet: Total % Cover of: Description	

SOIL Sampling Point: DP-057 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/4 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Count	ity: Chauta	auqua County		Sampling Date:	Aug 7, 202	20
Applicant/Owner:	ConnectGEN, LL	LC				Sta	ite: NY	Sampling Point:	DP-060	
Investigator(s):	James Ireland			Section, Tc	ownship, Range	e: Town c	of Ripley	_		
Landform (hillslope,		Drainageway			f (concave, conv		Concave		Slope (%):	2
	•	LRR R		Lat: 42.196091°	•	Long: 79.743			Datum: NA	
Subregion (LRR or I			0 to 0 mares		'IN I	LONG. 13.140		" DELIDIT	Datam. 1	1000
Soil Map Unit Name		gravelly sandy loar					NWI classif			
Are climatic / hydrole	-	• •	· ·			o (If	no, explain in I	Remarks.)		
·		, or Hydrology				re "Normal Cir	rcumstances" p	resent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	f needed, expla	ain any answer	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	: locations,	transects,	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes _	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes _	x No		If yes, optiona	al Wetland Site	ID: 015	;		
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Socondary I	ndicators (minimum	of two require	~d/
		: a required; check	all that apply)			-		·	OI IWO IEquire	<u>aa)</u>
Surface Water	•	e is required; check		Stained Leaves (B	20)			oil Cracks (B6) Patterns (B10)		
x High Water T			_	c Fauna (B13)	39)	=		Lines (B16)		
× Saturation (A				eposits (B15)		-		n Water Table (C2)	١	
Water Marks	•		_	gen Sulfide Odor (0	(C1)	<u>-</u>		urrows (C8)		
Sediment De	-			ed Rhizospheres o	•	(C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Presen	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C	·6) _	x Geomorph	ic Position (D2)		
Iron Deposits	s (B5)		Thin M	luck Surface (C7)		-	Shallow Ad	quitard (D3)		
l —	isible on Aerial Im		Other ((Explain in Remark	ks)	_		graphic Relief (D4)		
Sparsely Vec	getated Concave S	Surface (B8)					x FAC-Neutr	al Test (D5)		
Field Observation										
Surface Water Pre		Yes No _								
Water Table Prese		Yes x No		(inches): 9		Wetland H	ydrology Pres	ent? Yes <u> </u>	x No	
Saturation Presen (includes capillary		Yes x No	Deptn	(inches): 7						
<u> </u>	<u> </u>	auge, monitoring we	ell, aerial photo	os. previous inspe	ections), if availa	able:				
	,	_			*					
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute Dominant Indicate % Cover Species? Statu	I Dominance Teet werkshoot:
1		Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.		
3.		Total Number of Dominant Species Across All Strata: 4 (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: 100 (A/B)
6.		_
7.		Prevalence Index worksheet: Total % Cover of: Multiply by:
	0 = Total Cover	OBL species 85 x 1 = 85
Sapling/Shrub Stratum (Plot size: 15 ft.)		FACW species 90 x 2 = 180
Salix nigra	85 Yes OBI	FAC species <u>0</u> x 3 = <u>0</u>
2.		FACU species <u>0</u> x 4 = <u>0</u>
3.		UPL species 0 x 5 = 0
4		Column Totals: <u>175</u> (A) <u>265</u> (B)
-		Prevalence Index = B/A = 1.51
5		Hydrophytic Vegetation Indicators:
7.		X 1 - Rapid Test for Hydrophytic Vegetation
		X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	85 = Total Cover	X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Eupatorium perfoliatum		data in Remarks or on a separate sheet)
Impatiens capensis	40 Yes FAC	
Onoclea sensibilis	20 Yes FAC	
5. Officies serisibilis	20 165 170	be present, unless disturbed or problematic.
4		Definitions of Vegetation Strata:
6		Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.		at breast height (DBH), regardless of height.
7		Sapling/shrub – Woody plants less than 3 in. DBH
0		and greater than or equal to 3.28 ft (1 m) tall.
40		Herb – All herbaceous (non-woody) plants, regardless of
10.		size, and woody plants less than 3.28 ft tall.
11.		Woody vines – All woody vines greater than 3.28 ft in
12		height.
W 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	90 = Total Cover	
Woody Vine Stratum (Plot size: 30 ft.)		
1.		Hydrophytic
2		- Vegetation
3		Present? Yes <u>x</u> No
4		_
	0 = Total Cover	
Remarks: (Include photo numbers here or on a separat	te sheet.)	

SOIL Sampling Point: DP-060 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Muck 10YR 5/1 10YR 4/6 65 Clay 7.5YR 5/8 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 4 No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-061	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Riplev	•		
Landform (hillslope,		Hillslope			f (concave, con		Convex		Slope (%):	2
	•	•			•	·			Datum: N	
Subregion (LRR or I		LRR R		Lat: 42.196457°	N i	Long: 79.74384				1000
Soil Map Unit Name		ilt loam; 0 to 3 percent s					NWI classific		ped	
Are climatic / hydrol	ogic conditions on	the site typical for this t	ime of yea	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	ficantly disturbed	? A	re "Normal Circu	ımstances" pre	esent? Yes	X No	,
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic?	? (I	f needed, explain	າ any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	·
Hydrophytic Vege	etation Present?	Yes	No	Y	Is the Sample	ed Area				
Hydric Soil Presei		Yes	— No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
		lures here or in a separa 15, in wooded area n			wetland					
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two requir	ed)
Primary Indicators	s (<u>minimum of one</u>	is required; check all th	at apply)				Surface Soi	il Cracks (B6)		
Surface Water	er (A1)		Water-S	Stained Leaves (E	B9)		Drainage P	atterns (B10)		
High Water 1	Table (A2)	_	Aquatic	Fauna (B13)		_	Moss Trim	Lines (B16)		
Saturation (A	43)	<u></u>	Marl De	eposits (B15)		<u> </u>	Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)	_	Hydrog	jen Sulfide Odor ((C1)	_	Crayfish Bu	ırrows (C8)		
Sediment De	eposits (B2)	_	Oxidize	ed Rhizospheres o	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)	_	Present	ce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)	_	Thin Mu	uck Surface (C7)		_	Shallow Aq	uitard (D3)		
Inundation V	isible on Aerial Im	agery (B7)	Other (F	Explain in Remar	ks)	_	Microtopog	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)				_	FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre	esent?	Yes Nox	Depth	(inches):						
Water Table Prese	ent?	Yes Nox	Depth	(inches):		Wetland Hyd	irology Prese	ent? Yes	No _	х
Saturation Presen		Yes No x		(inches):						
(includes capillary	/ fringe)				[
Describe Recorde	ed Data (stream ga	auge, monitoring well, a	erial photo	s, previous inspe	ections), if availa	able:				
Daniela,										
Remarks: No wetland hydrolo	oay observed									
,	9)									

								1
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
1. Prunus serotina	60	Yes	FACU	Number of Domi That Are OBL, F			0	(A)
2. Acer saccharum	30	Yes	FACU					_` ′
3. Acer rubrum	10	No	FAC	Total Number of Species Across			4	(B)
4 Malus sp.								_` ′
				Percent of Domi That Are OBL, F			0	(A/E
5								
5				Prevalence Inde				
·				Total % Co			lultiply by:	_
	100	= Total Cover		OBL species		-	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species		_	0	_
				FAC species FACU species	10 170	•		_
				UPL species	10	x 4 = x 5 =		_
•				Column Totals:	190	(A)	760	— (В
				Column 10tais.	100	_ (^)	700	_ ("
				Prevalenc	e Index = B/A =	4		
5.				Hydrophytic Ve	getation Indica	tors:		
					est for Hydrophy		tation	
					nce Test is >50%			
	0	= Total Cover		_	nce Index is ≤3.0			
rb Stratum (Plot size: 5 ft.)					logical Adaptatio Remarks or on a			g
Rubus idaeus	50	Yes	FACU	uata III	Nemarks of on a	i Sepaiai	e sileet)	
. Pteridium aquilinum	40	Yes	FACU	Problemation	c Hydrophytic Ve	egetation	¹ (Explain)	
				¹ Indicators of hy	dric soil and wet	land hyd	Irology must	
				be present, unle	ss disturbed or p	roblema	atic.	
				Definitions of V	egetation Strat	a·		
·					_		!	
				Tree – Woody pl	•	-		
· <u> </u>							_	
i				Sapling/shrub - and greater than				
).					•			
0.				Herb – All herba size, and woody				of
1								
2				Woody vines – height.	All woody vines	greater t	nan 3.28 ft in	
	90	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
·				Vegetation				
				Present?	Yes _	·	NoX	
	0	= Total Cove	er					

SOIL Sampling Point: DP-061 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/4 90 7.5YR 4/6 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	ject	City/Coun	ity: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-062	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Drainageway			(concave, conv		Concave		Slope (%):	2
, , ,						•			· · · · -	
Subregion (LRR or I	-	LRR R		Lat: 42.196533°	<u>'N ı</u>	Long: 79.74196			Datum: NA	4D03
Soil Map Unit Name	BsA - Busti s	silt loam; 0 to 3 perce	ent slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions or	n the site typical for t	this time of ye	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	Are "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetl	and?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 015			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary In	dicators (minimum	of two require	od)
		e is required; check a	all that anniv)			_	-	il Cracks (B6)	Or two require	3 0)
Surface Water	•	IS required, check of		-Stained Leaves (E			-	atterns (B10)		
High Water 1			_	ic Fauna (B13)	<i>)</i>	<u>X</u>	_	Lines (B16)		
Saturation (A				Deposits (B15)			_	n Water Table (C2)	i	
Water Marks	•			gen Sulfide Odor (C1)	_	_ Crayfish Bu			
Sediment De				ed Rhizospheres o	•	(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)	<u> </u>	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other ((Explain in Remark	ks)	X	_	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre		Yes No _								
Water Table Pres		Yes No _		h (inches):		Wetland Hyd	Irology Prese	ent? Yes <u></u>	x No	
Saturation Present		Yes No _	x Depth	ı (inches):						
(includes capillary	<u> </u>	auge, monitoring we	oll perial phot	tos previous inspe	octions) if avails	ahla:				
Describe Notice	il Dala (silcum go	auge, mornioning	ili, aciiai prios	JS, previous mopo-	Cliurioj, ii avanc	abic.				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1	70 00101	ороског.	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)				
2.				That Are OBL, FACW, or FAC: (A)				
3.				Total Number of Dominant Species Across All Strata: 3 (B)				
				Percent of Dominant Species				
5				That Are OBL, FACW, or FAC: 100 (A/	B)			
6.								
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:				
		= Total Cover		OBL species <u>80</u> x 1 = <u>80</u>				
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>30</u> x 2 = <u>60</u>				
1				FAC species $0 \times 3 = 0$				
2				FACU species 15 x 4 = 60				
3				UPL species 0 x 5 = 0 Column Totals: 125 (A) 200 (E	٥١			
4.				Column Totals: 125 (A) 200 (E	>)			
5				Prevalence Index = B/A = 1.6				
6.				Hydrophytic Vegetation Indicators:				
7				1 - Rapid Test for Hydrophytic Vegetation				
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹				
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting				
Scirpus atrovirens	50	Yes	OBL	data in Remarks or on a separate sheet)				
2. Juncus pylaei	30	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
Trifolium pratense	15	No	FACU	¹ Indicators of hydric soil and wetland hydrology must				
Phalaris arundinacea	30	Yes	FACW	be present, unless disturbed or problematic.				
5.				Definitions of Vegetation Strata:				
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter				
7				at breast height (DBH), regardless of height.				
8				Sapling/shrub – Woody plants less than 3 in. DBH				
9.				and greater than or equal to 3.28 ft (1 m) tall.				
10				Herb – All herbaceous (non-woody) plants, regardless of				
11				size, and woody plants less than 3.28 ft tall.				
12				Woody vines – All woody vines greater than 3.28 ft in height.				
	125	= Total Cover						
Woody Vine Stratum (Plot size: 30 ft.)								
1								
2				Hydrophytic Vegetation				
3				Present? Yes <u>x</u> No				
4								
	0	= Total Cove	r					
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL Sampling Point: DP-062 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/2 7.5YR 4/4 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>		<u> </u>		State:	: NY	Sampling Point:	DP-063	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, con		Concave		Slope (%):	1
	•				,	,				V D63
Subregion (LRR or I	-	LRR R		Lat: 42.197071°	°N ı	Long: 79.74155			Datum: NA	4D02
Soil Map Unit Name	e: BsA - Busti s	silt loam; 0 to 3 perc	ent slopes				NWI classific		oed	
Are climatic / hydrol	logic conditions or	the site typical for	this time of ye	ear? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	i? A	Are "Normal Circu	mstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natı	urally problematic?	? (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	: locations, tr	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No	_	Is the Sample	ed Area	_		_	_
Hydric Soil Presei		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes _	x No		If yes, optiona	al Wetland Site ID	D: 015			
HYDROLOGY										
	Indicators						Casandary In	-liantara (minimum	-f two roquire	الہ -
Wetland Hydrolo			" "			_		dicators (minimum	of two require	3 a)
-	•	e is required; check			531		-	il Cracks (B6)		
Surface Water			_	-Stained Leaves (E	В9)	<u>X</u>	-	atterns (B10)		
High Water 7				ic Fauna (B13)			_	Lines (B16)		
Saturation (A	·			Deposits (B15)	(04)	_	•	n Water Table (C2)		
Water Marks				gen Sulfide Odor ((00)	Crayfish Bu		(00)	
Sediment De Drift Deposits	. ,			ed Rhizospheres once of Reduced Iro	_	(C3)	-	Visible on Aerial Im Stressed Plants (D		
Algal Mat or	• •			nce of Reduced Inc nt Iron Reduction in		.e/ ^	<u> </u>	c Position (D2)	1)	
Iron Deposits	` ,			Auck Surface (C7)	•	(6) <u>X</u>	Shallow Aq			
	/isible on Aerial Im	nagery (B7)		(Explain in Remarl		X	•	raphic Relief (D4)		
	getated Concave S	• , , ,		(=/	,		FAC-Neutra			
Field Observatio		· · ·					•			
Surface Water Pre		Yes No _	x Depth	n (inches):						
Water Table Pres		Yes No		h (inches):		Wetland Hyd	rology Prese	ent? Yes x	x No	_
Saturation Presen		Yes No								
(includes capillary	y fringe)									
Describe Recorde	ed Data (stream ga	auge, monitoring we	ell, aerial phot	os, previous inspe	ections), if availa	able:				
Remarks:										
Nemans.										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
I. Ulmus americana	30	Yes	FACW	Number of Domin		5 (A)
2						
3.				Total Number of Species Across A		5 (B)
						(5)
1				Percent of Domir That Are OBL, F		100 (A/B)
5						(/\U_)
5				Prevalence Inde	ex worksheet:	
7				Total % Cov	ver of:	Multiply by:
	30	= Total Cover		OBL species	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species		x 2 = <u>280</u>
I. Fraxinus pennsylvanica	30	Yes	FACW	FAC species	60	
2. Lindera benzoin	20	Yes	FACW	FACU species	0	
3.				UPL species	0	x = 0
1.				Column Totals:	200	(A) <u>460</u> (B)
				Prevalence	e Index = B/A =	2.3
5						
5				Hydrophytic Ve	getation indica est for Hydrophy	
, <u> </u>				X 2 - Dominar		
	50	= Total Cover		X 3 - Prevaler		
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting
Solidago rugosa	60	Yes	FAC	data in F	Remarks or on a	a separate sheet)
2. Eupatorium perfoliatum	20	No	FACW	Problematic	Hydrophytic Ve	egetation ¹ (Explain)
3. Symphyotrichum lanceolatum	40	Yes	FACW	¹ Indicators of hyd	dric soil and wet	land hydrology must
				be present, unles		
4. =				Definitions of V	agatation Strat	.
o				Definitions of V	_	
5.				at breast height (·	m) or more in diameter
7. <u> </u>						-
3				Sapling/shrub – and greater than		ess than 3 in. DBH
9					·	,
10.				Herb – All herba		dy) plants, regardless of
11						
12				Woody vines – / height.	All woody vines	greater than 3.28 ft in
	120	= Total Cover				
oody Vine Stratum (Plot size: 30 ft.)	120	- 10101 00101				
,						
•				Hydrophytic		
2				Vegetation		
3.				Present?	Yes _	x No
4.						
	0	= Total Cove	r			

SOIL Sampling Point: DP-063 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 10YR 3/2 70 10YR 4/6 MS Clay Loam 0-20 7.5YR 4/4 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Project	t	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-064	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of R	Ripley	•		
Landform (hillslope,		Hillslope			f (concave, con		Convex		Slope (%):	2
	•	LRR R			•	Long: 79.740616			Datum: N	
Subregion (LRR or I	-		. 0 = 2400	Lat: 42.197631	-IN	LONG: 19.140010		" Nat Monn		AD00
Soil Map Unit Name		rack loamy fine sand; 2					NWI classific		pea	
-	_	n the site typical for this	-			o (If no	o, explain in R	emarks.)		
		, or Hydrology				Are "Normal Circur	mstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach sit	te map s	showing sam	npling point	locations, tr	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				_
Hydric Soil Presei		Yes	No No	X	within a Wetl		Yes	No	K	l
Wetland Hydrolog		Yes	No	X	If yes, optiona	al Wetland Site ID:	ı:			
HYDROLOGY										
Wetland Hydrolo	an Indicators						Sacondary In	dicators (minimum	of two requir	od)
		- i- required, shock all t	"- at apply)				-	· · · · · · · · · · · · · · · · · · ·	Oi two requir	eu)
Surface Water	•	e is required; check all t		Stained Leaves (I	P0)			il Cracks (B6) atterns (B10)		
High Water 1		_	_	Stained Leaves (i c Fauna (B13)	D9)	_	Moss Trim I			
Saturation (A		_		eposits (B15)		_	•	n Water Table (C2)		
Water Marks	•			gen Sulfide Odor ((C1)	_	Crayfish Bu			
Sediment De		_		ed Rhizospheres			•	√isible on Aerial Im	nagery (C9)	
Drift Deposits	. , ,	_		ce of Reduced Ire	=		•	Stressed Plants (D		
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)	_	Thin M	uck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im	_	Other (Explain in Remar	rks)	_	-	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre	esent?	Yes Nox		(inches):		ľ				
Water Table Prese	ent?	Yes Nox		(inches):		Wetland Hydr	rology Prese	ent? Yes	No _	Х
Saturation Presen		Yes Nox	Depth	(inches):		İ				
(includes capillary	<u> </u>	arra manitaring wall	assial photo	a provious inspe	actional if avail	abla:				
Describe Recorde	id Data (Stream yo	auge, monitoring well, a	зепатрною	s, previous irispe	3Ctions), ii avaii	abie:				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Prunus serotina	50	Yes	FACU	Number of Dominant Species	4 (0)
Acer saccharum			FACU	That Are OBL, FACW, or FAC:	1(A)
3		100	17.00	Total Number of Dominant Species Across All Strata:	4 (B)
					(2)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	25 (A/B)
6.					
				Prevalence Index worksheet: Total % Cover of:	∕lultiply by:
7		= Total Cover		OBL species <u>0</u> x 1 =	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 10 x 2 =	
1				FAC species 0 x 3 =	
2.				FACU species <u>145</u> x 4 =	580
3.					0
4				Column Totals: 155 (A)	600 (B)
				Prevalence Index = B/A = 3.87	
5				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vege	etation
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Pro 	ovido supporting
, ,	40	N.	E40)4/	data in Remarks or on a separa	
Fraxinus pennsylvanica Praxidium aquillaum	10	No No	FACW	Problematic Hydrophytic Vegetation	of (Evoloin)
Peteridium aquilinum	30	Yes	FACU		
3. Prunus serotina	15	Yes	FACU	¹ Indicators of hydric soil and wetland hydbe present, unless disturbed or problema	
4					
5				Definitions of Vegetation Strata:	ara in diameter
6				Tree – Woody plants 3 in. (7.6 cm) or mo at breast height (DBH), regardless of hei	
7				Sapling/shrub – Woody plants less than	
0				and greater than or equal to 3.28 ft (1 m)	
9				Herb – All herbaceous (non-woody) plan	nts, regardless of
10.				size, and woody plants less than 3.28 ft	tall.
11				Woody vines – All woody vines greater	than 3.28 ft in
12		T		height.	
Woody Vine Stratum (Diet sine 20.5)	55	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes	No <u>x</u>
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-064 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/3 100 Silt Loam Very Fine Sandy 10YR 4/4 10YR 3/3 85 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	uqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-065	
Investigator(s):	James Ireland			Section, To	ownship, Range:	Town of F	Riplev	•		
Landform (hillslope		Depression			f (concave, conv		Concave		Slope (%):	2
	·								Datum: N	
Subregion (LRR or		LRR R		Lat: 42.198808°	S'N L	ong: 79.74048				1003
Soil Map Unit Name	e: BsA - Busti s	silt loam; 0 to 3 per	cent slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydro	logic conditions or	n the site typical for	r this time of ye	ear? Yes	<u>x</u> No	(If no	, explain in R	emarks.)		
Are Vegetation _	, Soil	, or Hydrology	sign	nificantly disturbed	l? Ar	e "Normal Circu	mstances" pre	esent? Yes	X No	
Are Vegetation _	, Soil	, or Hydrology	natu	urally problematic?	? (If	needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations, tı	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	d Area				
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolo		Yes	x No		If yes, optional	Wetland Site ID	: 016			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two requir	ed)
Primary Indicator	s (minimum of one	e is required; check	all that apply))			Surface Soi	l Cracks (B6)		
Surface Wa	ier (A1)			-Stained Leaves (E	B9)	<u>X</u>	Drainage P	atterns (B10)		
x High Water	Table (A2)		Aquati	ic Fauna (B13)		_	Moss Trim I	Lines (B16)		
x Saturation (•			Deposits (B15)		_		Water Table (C2)	1	
x Water Mark				gen Sulfide Odor (Crayfish Bu			
Sediment D	eposits (B2)			ed Rhizospheres o	· ·	(C3)	l .	/isible on Aerial Im		
			Preser	nce of Reduced Iro		X		Stressed Plants (D	1)	
Drift Deposit			_	st Iron Dodination in		:) ~	Geomorphi	c Position (D2)		
Drift Deposi	Crust (B4)				n Tilled Soils (C6	5) <u>x</u>	Ob - II A			
Drift Deposi Algal Mat or Iron Deposit	Crust (B4))2007 (DZ)	Thin M	Muck Surface (C7)			Shallow Aq	1		
Drift Deposi Algal Mat or Iron Deposit Inundation \	Crust (B4) ss (B5) /isible on Aerial Im		Thin M			X	Microtopog	raphic Relief (D4)		
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve	Crust (B4) ss (B5) /isible on Aerial Imagetated Concave		Thin M	Muck Surface (C7)		X		raphic Relief (D4)		
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve	Crust (B4) ss (B5) /isible on Aerial Imagetated Concave	Surface (B8)	Thin M	Лиск Surface (С7) (Explain in Remarl		X	Microtopog	raphic Relief (D4)		
Drift Deposit Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observation Surface Water Pr	Crust (B4) ss (B5) /isible on Aerial Imagetated Concave	Surface (B8) Yes No	Thin M Other x Depth	Muck Surface (C7) (Explain in Remarl		<u>x</u> <u>x</u>	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	v No.	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatio Surface Water Pr Water Table Pres	Crust (B4) is (B5) /isible on Aerial Imgetated Concave ons: esent? sent?	Yes No	Thin M Other x Depth Depth	Muck Surface (C7) (Explain in Remarl th (inches): h (inches): 8		X	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	<u>к</u> No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatio Surface Water Pr Water Table Pres Saturation Preser	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: esent? eent? nt?	Surface (B8) Yes No	Thin M Other x Depth Depth	Muck Surface (C7) (Explain in Remarl		<u>x</u> <u>x</u>	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Preset (includes capillar)	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes No	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	<u>x</u> No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Preset (includes capillar)	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Preset (includes capillar)	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Preset (includes capillar)	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No_	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Records	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Records	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Records	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No_	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Records	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	<u>x</u> No _	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Recorde	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Recorde	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No_	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Recorde	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	<u> </u>	
Drift Deposi Algal Mat or Iron Deposit Inundation \ Sparsely Ve Field Observatic Surface Water Pr Water Table Pres Saturation Presel (includes capillar) Describe Recorde	Crust (B4) is (B5) //isible on Aerial Imgetated Concave ons: resent? sent? ort? y fringe)	Yes	Thin M Other	Muck Surface (C7) (Explain in Remark h (inches): h (inches): 8 h (inches): 6	rks)	× × Wetland Hyd	Microtopogi FAC-Neutra	raphic Relief (D4) al Test (D5)	x No _	

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Ulmus americana	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
2. Acer rubrum	30	Yes	FAC		(//
3.				Total Number of Dominant Species Across All Strata:	5 (B)
~					(-/
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B
5					
6.				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
	70	= Total Cover		OBL species 80	x 1 = <u>80</u>
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 110	x 2 = <u>220</u>
I. Lindera benzoin	40	Yes	FACW	FAC species 30	x 3 = 90
2.				FACU species 0	x 4 = 0
				UPL species 0	x 5 = 0
3				Column Totals: 220	(A) <u>390</u> (B)
1.				Prevalence Index = B/A =	1 77
5					
S				Hydrophytic Vegetation Indica	
7				1 - Rapid Test for Hydrophy	
	40	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)		- 10101 00101		4 - Morphological Adaptatio	
Leersia oryzoides	80	Yes	OBL	data in Remarks or on a	
•				Droblomatic Hydrophytic Va	agatation ¹ (Eyplain)
. Onoclea sensibilis	30	Yes	FACW	Problematic Hydrophytic Ve	
3				¹ Indicators of hydric soil and wet	·
l				be present, unless disturbed or p	problematic.
5.				Definitions of Vegetation Strate	a:
3.				Tree – Woody plants 3 in. (7.6 cr	m) or more in diameter
				at breast height (DBH), regardles	ss of height.
3.				Sapling/shrub – Woody plants lo	ess than 3 in. DBH
				and greater than or equal to 3.28	3 ft (1 m) tall.
				Herb – All herbaceous (non-woo	dy) plants, regardless of
0				size, and woody plants less than	
1				Woody vines – All woody vines	greater than 3.28 ft in
2				height.	·
	110	= Total Cover			
oody Vine Stratum (Plot size: 30 ft.)					
•					
				Hydrophytic	
2				Vegetation	
3				Present? Yes _	No
4		= Total Cove	r		

SOIL Sampling Point: DP-065 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Muck 10YR 4/1 7.5YR 4/6 60 MS Clay 10YR 5/8 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 3 No Remarks:

Project/Site:	South Ripley So	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-066	
Investigator(s):	James Ireland		(-	Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			f (concave, con		Convex		Slope (%):	2
• • •		LRR R		Lat: 42.197597	•	Long: 79.74267			Datum: N	
Subregion (LRR or I	-			Lat. 42.191001	- IN	LONG: 19.14201		2 Not Many		1000
Soil Map Unit Name		silt loam; 0 to 3 percent s					_ NWI classific		ped	
·	_	n the site typical for this	-			o (If no	o, explain in R	emarks.)		
		, or Hydrology				Are "Normal Circu	ımstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (II	f needed, explain	າ any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	howing sam	npling point	: locations, t	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No	X	within a Wetl		Yes	No	x	l
Wetland Hydrolog		Yes	No	Х	If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo						_	-	dicators (minimum	of two require	ed)
	•	e is required; check all th						il Cracks (B6)		
Surface Wate		_	_	Stained Leaves (E	B9)	_	_	atterns (B10)		
High Water T		_	_	Fauna (B13)		_		Lines (B16)		
Saturation (A	·	_		eposits (B15)			_	Water Table (C2)	1	
Water Marks		_	_	en Sulfide Odor (<u> </u>	_ Crayfish Bu		(20)	
Sediment De		_		ed Rhizospheres	_	(C3)	_	Visible on Aerial Im		
Drift Deposits		_	_	ce of Reduced Iron	, ,		_	Stressed Plants (D	1)	
Algal Mat or	, ,	_	_	Iron Reduction in	,	-6)		c Position (D2)		
Iron Deposits	is (B5) /isible on Aerial Im			uck Surface (C7) Explain in Remar		_	Shallow Aqu	-		
_	getated Concave S		_ Onler (L	Exhigiti ili velilar	rks)	_	_ Microtopogi _ FAC-Neutra	raphic Relief (D4)		
		Sulface (Do)					FAO-Neutre	11 Lezi (D2)		
Field Observation Surface Water Pre		Yes Nox	Denth	(inchas):						
Water Table Prese						Matland Hyd	drology Prese	ent? Yes	No	
Saturation Presen		Yes No x Yes No x				Welland myd	Il Ology i 1630	163	No _	_ X
(includes capillary		Yes NU A	_ Берин	(inches):						
		auge, monitoring well, a	erial photo	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

				<u></u>
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Prunus serotina	60	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A
2. Acer saccharum	40	Yes	FACU	
3.				Total Number of Dominant Species Across All Strata: 5 (B
.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A.
5.				
5				Prevalence Index worksheet:
		Tatal Causes		Total % Cover of: Multiply by:
W (0) 1 0 0 0 (0)	100	= Total Cover		OBL species 0 x1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0 $x = 0$ FAC species 0 $x = 0$
1. Acer saccharum	30	Yes	FACU	FACU species 180 x 4 = 720
2				UPL species 0 x 5 = 0
3.				Column Totals: 180 (A) 720 (
4				
5				Prevalence Index = B/A = 4
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	20	- Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
erb Stratum (Plot size: 5 ft.)	30	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Pteridium aquilinum	30	Yes	FACU	data in Remarks or on a separate sheet)
2. Prunus serotina	20		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
		165	PACO	Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4				
5				Definitions of Vegetation Strata:
5				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
B				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	50	= Total Cover		-
/oody Vine Stratum (Plot size: 30 ft.)				
				Hydrophytic
2.				Vegetation
				Present? Yes NoX
3.				
3. 4.				

SOIL Sampling Point: DP-066 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/4 90 10YR 4/6 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No Hydric soils found.

Project/Site:	South Ripley Sol	ar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-067	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, con		Concave		Slope (%):	1
, , ,	,	LRR R		Lat: 42.197817°	•	Long: 79.74330			Datum: NA	<u>.</u> ∆D83
Subregion (LRR or I				Lat. 42.131011	IN L	LONG. 13.14000		" Nat Mone		1000
Soil Map Unit Name		ilt loam; 0 to 3 perc			N		NWI classific		<u>sea</u>	
Are climatic / hydrol			•				o, explain in R			
·		, or Hydrology				re "Normal Circu	mstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point	locations, tr	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area	_		_	_
Hydric Soil Presei		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site ID	D: 017			
HYDROLOGY										
Wetland Hydrolo	onv Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		is required; check	all that apply)	1		_		il Cracks (B6)	Or two rogans	<i>50)</i>
Surface Water		15 Tequileu, Orloon		-Stained Leaves (E	R9)	X	-	atterns (B10)		
× High Water 1			_	ic Fauna (B13)	39)	_^_	Moss Trim I			
× Saturation (A				Deposits (B15)		_	_	Water Table (C2)	ı	
Water Marks	•			gen Sulfide Odor ((C1)	_	Crayfish Bu			
Sediment De				ed Rhizospheres o		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)		Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (C	x (6)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other	(Explain in Remarl	ks)	X		raphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes No _								
Water Table Prese		Yes x No		h (inches): 2		Wetland Hyd	rology Prese	ent? Yes x	x No	
Saturation Present (includes capillary		Yes x No	Deptr	h (inches): 0						
		auge, monitoring we	ell, aerial phot	tos, previous inspe	ections), if availa	able:				
	_	g.,								
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1		<u> </u>		Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2.	_			That Ale OBL, FACW, of FAC.	3(A)
3				Total Number of Dominant Species Across All Strata:	3 (B)
<u> </u>				·	(D)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
5					
6				Prevalence Index worksheet:	
7		T		Total % Cover of:	Multiply by:
0. 15 (0) 1. 0. (0) (1. (5)	0	= Total Cover		OBL species 60 FACW species 30	x 1 = 60 x 2 = 60
Sapling/Shrub Stratum (Plot size: 15 ft.)	_				x = 00 x = 00
1				· · · · · · · · · · · · · · · · · · ·	x 4 = 0
2				UPL species 0	x 5 = 0
3				Column Totals: 120	(A) <u>210</u> (B)
4					
5				Prevalence Index = B/A = 1	.75
6				Hydrophytic Vegetation Indicate	
7				1 - Rapid Test for Hydrophyti	c Vegetation
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	s ¹ (Provide supporting
1. Typha angustifolia	60	Yes	OBL	data in Remarks or on a s	separate sheet)
2. Matteuccia struthiopteris	30	Yes	FAC	Problematic Hydrophytic Veg	etation ¹ (Explain)
3. Onoclea sensibilis	30	Yes	FACW	¹ Indicators of hydric soil and wetla	and hydrology must
4.				be present, unless disturbed or pre-	oblematic.
5.				Definitions of Vegetation Strata	:
6.				Tree – Woody plants 3 in. (7.6 cm	
_				at breast height (DBH), regardless	
8.				Sapling/shrub – Woody plants le:	ss than 3 in. DBH
0				and greater than or equal to 3.28 f	t (1 m) tall.
9	_			Herb – All herbaceous (non-wood	y) plants, regardless of
10.				size, and woody plants less than 3	3.28 ft tall.
11.				Woody vines – All woody vines gr	reater than 3.28 ft in
12				height.	
	120	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	=				
1				Hydrophytic	
2				Vegetation	
3				Present? Yes	x No
4					
	0	= Total Cover	r		
Remarks: (Include photo numbers here or on a separate sheet	t.)				

SOIL Sampling Point: DP-067 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/2 100 Muck 0-6 10YR 5/1 70 10YR 5/8 MS Clay 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 6 No Remarks:

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 10, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-068	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, conv	•	Concave		Slope (%):	2
	•				•	,	1		· · · · ·	
Subregion (LRR or l	-	LRR R		Lat: 42.199727	<u>°N 1</u>	Long: 79.74316			Datum: N	4D02
Soil Map Unit Name	e: As - Allis silt	loam					NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	ear? Yes	<u>x</u> No	o (If no	o, explain in R	lemarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	l? A	re "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	? (If	f needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl	and?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 016			
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Secondary In	ndicators (minimum	of two requir	ed)
_		e is required; check	all that apply	١			-	il Cracks (B6)	01 1110 10 1	<i>5</i> 4)
Surface Water		rio roquirou, cincen		r-Stained Leaves (F	B9)	X	-	atterns (B10)		
High Water 1			_	tic Fauna (B13)	50,	<u></u>	_	Lines (B16)		
Saturation (A				Deposits (B15)		<u> </u>	_	n Water Table (C2))	
Water Marks	•			ogen Sulfide Odor ((C1)		Crayfish Bu	•		
Sediment De	eposits (B2)		Oxidiz	zed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Prese	ence of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recer	nt Iron Reduction in	n Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	• ,			Muck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other	(Explain in Remar	rks)	X	_	raphic Relief (D4)		
Sparsely Veg	getated Concave	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pre		Yes No _		,		*** ** 111 1	· • •	- .		
Water Table Prese		Yes No		h (inches):		Wetland Hyd	Irology Prese	ent? Yes <u>x</u>	x No	
Saturation Present (includes capillary		Yes No	x Dept	h (inches):						
, ,	<u> </u>	auge, monitoring we	ell. aerial pho	tos, previous inspe	ections), if availa	able:				
					,,					
Remarks:										

Free Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
,				Number of Dominant Species	4 (4)
1				That Are OBL, FACW, or FAC:	1(A)
2				Total Number of Dominant	4 (D)
3.				Species Across All Strata:	1(B)
4				Percent of Dominant Species	400 (4/0)
5				That Are OBL, FACW, or FAC:	(A/B)
6.				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
	0	= Total Cover		OBL species 100	x 1 = 100
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 35	x 2 = <u>70</u>
1				FAC species 0	x 3 = 0
2				FACU species 0	x 4 = 0
•				UPL species 0	x 5 = 0
3. 				Column Totals: 135	(A) <u>170</u> (B)
4				Prevalence Index = B/A	- 1 25
5					
6				Hydrophytic Vegetation India	
7				X 1 - Rapid Test for Hydropl X 2 - Dominance Test is >50	
	0	= Total Cover		X 3 - Prevalence Index is ≤3	
erb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptat	ions ¹ (Provide supporting
Leersia oryzoides	85	Yes	OBL	data in Remarks or on	a separate sheet)
2. Symphyotrichum lanceolatum	15	No	FACW	Problematic Hydrophytic \	/egetation ¹ (Explain)
3. Eupatorium perfoliatum	20	No	FACW	¹ Indicators of hydric soil and w	etland hydrology must
4. Carex vulpinoidea	15	No	OBL	be present, unless disturbed or	problematic.
_				Definitions of Vegetation Stra	ata:
5				Tree – Woody plants 3 in. (7.6	
6				at breast height (DBH), regardl	*
7					_
				Sapling/shrub – Woody plants and greater than or equal to 3.2	
9				Herb – All herbaceous (non-wo	
10				size, and woody plants less that	
11				Woody vines – All woody vines	s greater than 3.28 ft in
12				height.	s greater than 5.20 it in
	135	= Total Cover			
/oody Vine Stratum (Plot size: 30 ft.)					
I.	<u> </u>				
				Hydrophytic	
2				Vegetation	
2				Present? Yes	No
J					
4					

SOIL Sampling Point: DP-068 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5 YR 4/6 30 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-069	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Terrace			ef (concave, con		Convex	•	Slope (%):	1
	•				,	,				ν Dδ3
Subregion (LRR or I	-	LRR R		Lat: 42.198222	2°N 1	Long: 79.74569			Datum: N	ADOS
Soil Map Unit Name	BsA - Busti s	silt loam; 0 to 3 percent s	slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydrole	logic conditions or	n the site typical for this	time of yea	ar? Yes	XNo	o (If no	o, explain in R	emarks.)		
Are Vegetation	X , Soil	, or Hydrology	signif	ficantly disturbed	1? A	re "Normal Circu	mstances" pre	esent? Yes	x No	,
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic?	? (I	f needed, explain	ı any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	howing sam	npling point	locations, ti	ransects, i	important feat	tures, etc.	,
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo	oav Indicators:						Secondary In	dicators (minimum	of two requir	ed)
_		e is required; check all th	nat apply)			_		il Cracks (B6)	0	
Surface Water		10.040		Stained Leaves (I	B9)			atterns (B10)		
High Water T		_	_	: Fauna (B13)	20,	_	-	Lines (B16)		
Saturation (A		_	_	eposits (B15)			_	n Water Table (C2))	
Water Marks	s (B1)	_	Hydrog	en Sulfide Odor ((C1)		Crayfish Bu	irrows (C8)		
Sediment De	eposits (B2)	_	Oxidize	ed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)	_	_ Present	ce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	` '	_		Iron Reduction in	•	6)	•	c Position (D2)		
Iron Deposits		<u> </u>	_	uck Surface (C7)		_	Shallow Aqu	-		
	isible on Aerial Im		Other (Explain in Remar	rks)	_	_	raphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)				_	FAC-Neutra	al Test (D5)		
Field Observation										
Surface Water Pre		Yes Nox						· • • • • • • • • • • • • • • • • • • •		
Water Table Prese		Yes Nox				Wetland Hyd	rology Prese	ent? Yes	No _	Х
Saturation Presen		Yes Nox	Deptin	(inches):						
(includes capillary	/ fringe)	auge, monitoring well, a	_		ections), if availa	able:				
Remarks:										
No wetland hydrolog	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 0010.	Ороско:	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				That Are OBL, I ACW, OF I AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	1 (B)
4				·	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
· ·		= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
1				FAC species 0	x 3 = 0
2.				FACU species 0	x 4 = 0
3.				UPL species 100	x 5 = 500
4.				Column Totals: 100	(A) <u>500</u> (B)
5.				Prevalence Index = B/A = 5	
6.				Hydrophytic Vegetation Indicate	ors:
7				1 - Rapid Test for Hydrophyti	
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptation	
· · · · · · · · · · · · · · · · · · ·	400	Vee	LIDI	data in Remarks or on a s	
Triticum aestivum	100	Yes	UPL	Problematic Hydrophytic Veg	intation ¹ (Evaluin)
2				¹ Indicators of hydric soil and wetla	
3				be present, unless disturbed or pro	•
4					
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardless	
7 8.				Sapling/shrub – Woody plants les	-
				and greater than or equal to 3.28 f	
9				Herb – All herbaceous (non-wood	v) plants, regardless of
10				size, and woody plants less than 3	,,,
11				Woody vines – All woody vines gr	eater than 3.28 ft in
12.				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3.				Present? Yes	Nox
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.))				
Just harvested					

SOIL Sampling Point: DP-069 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/3 80 7.5YR 4/4 MS Silty Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No Hydric Soils found.

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State:	: NY	Sampling Point:	DP-070	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Drainageway			f (concave, con		Concave		Slope (%):	2
						•			· · · · -	
Subregion (LRR or I	-	LRR R		Lat: 42.199584	°N i	Long: 79.74536			Datum: NA	4000
Soil Map Unit Name	e: BsB - Busti s	silt loam; 3 to 8 perce	ent slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	ear? Yes	X No	o (If no	o, explain in R	lemarks.)		
Are Vegetation	, Soil	, or Hydrology	sigr	nificantly disturbed	? A	Are "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	? (I	If needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes _	x No	,	within a Wetl	land?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No	,	If yes, optiona	al Wetland Site ID	D: 018			
HYDROLOGY										
Wetland Hydrolo	and Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		e is required; check :	all that apply	A		_	-	il Cracks (B6)	Or two require	3 (1)
Surface Water		IS required, check		r-Stained Leaves (E	<u></u>		-	atterns (B10)		
High Water T			_	tic Fauna (B13)	J o j	<u> </u>	_	Lines (B16)		
Saturation (A				Deposits (B15)		_	_	n Water Table (C2)	1	
Water Marks	•			ogen Sulfide Odor ((C1)		Crayfish Bu	•		
Sediment De				zed Rhizospheres o			-	Visible on Aerial Im	nagery (C9)	
Drift Deposits	. , ,			ence of Reduced Iro	_		_	Stressed Plants (D		
Algal Mat or	* *		_	nt Iron Reduction in		26) <u>x</u>		c Position (D2)	,	
Iron Deposits	s (B5)			Muck Surface (C7)	•		Shallow Aq			
Inundation V	isible on Aerial Im	nagery (B7)	Other	(Explain in Remar	·ks)	Х	Microtopog	raphic Relief (D4)		
Sparsely Vec	getated Concave S	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observation	ns:									
Surface Water Pre	esent?	Yes No _	x Dept	h (inches):						
Water Table Prese	ent?	Yes No _		th (inches):		Wetland Hyd	Irology Prese	ent? Yes <u> </u>	x No	
Saturation Presen		Yes No _	x Dept	h (inches):						
(includes capillary			" -arial pha	tdevio loone	tings) if everile	t.ta.				
Describe Recorde	d Data (Stream ga	auge, monitoring we	ы, аепагрпо	ios, previous irispe	ections), ii avaiid	able:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 0010.	Орослост	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)	
2.	·			That Ale OBL, I ACW, OI I AC.	
3.				Total Number of Dominant Species Across All Strata: 4 (B)	
4					
5	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)	1
6.					
7.	·			Prevalence Index worksheet: Total % Cover of: Multiply by:	
·		= Total Cover		OBL species 40 x 1 = 40	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 150 x 2 = 300	
Cornus amomum	80	Yes	FACW	FAC species <u>30</u> x 3 = <u>90</u>	
2. Salix nigra	20	Yes	OBL	FACU species 0 x 4 = 0	
3.				UPL species 0 x 5 = 0	
4				Column Totals: <u>220</u> (A) <u>430</u> (B)	
5.				Prevalence Index = B/A = 1.95	
6.				Hydrophytic Vegetation Indicators:	ヿ
7.				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	100	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting	
Eupatorium perfoliatum	30	Yes	FACW	data in Remarks or on a separate sheet)	
Impatiens capensis	20	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
Onoclea sensibilis	20		FACW	¹ Indicators of hydric soil and wetland hydrology must	
Solidago rugosa	30		FAC	be present, unless disturbed or problematic.	
Leersia oryzoides	20		OBL	Definitions of Vegetation Strata:	
6		140	OBL	Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
				at breast height (DBH), regardless of height.	
7				Sapling/shrub – Woody plants less than 3 in. DBH	
0				and greater than or equal to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
				Woody vines – All woody vines greater than 3.28 ft in height.	
12.	120	= Total Cover		neight.	
Woody Vine Stratum (Plot size: 30 ft.)	120	_ Total Cover			
				Hydrophytic	
2				Vegetation	
3				Present? Yes <u>X</u> No	
4					
	0	= Total Cove	r		\dashv
Remarks: (Include photo numbers here or on a separate sheet.)				\dashv

SOIL Sampling Point: DP-070 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 4/4 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	lar and Storage Project		City/Cour	nty: Chauta	uqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	e: NY	Sampling Point:	DP-071	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of	Riplev	_	<u> </u>	
Landform (hillslope,		Hillslope			f (concave, con		Convex		Slope (%):	2
, ,			1 -		,				Datum: N	
Subregion (LRR or	-	LRR R		t: 42.199303	N I	Long: 79.7438				ADOS
Soil Map Unit Name	e: BsB - Busti s	silt loam; 3 to 8 percent sl	opes				_ NWI classifi	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for this ti	me of year?	Yes	X No	O (If r	no, explain in R	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	significa	intly disturbed	? A	re "Normal Circ	umstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	naturally	y problematic?	? (If	needed, explai	in any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	map sho	owing sam	pling point	locations,	transects,	important fea	tures, etc.	-
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No No		within a Wetl		Yes	No	X	
Wetland Hydrolog		Yes	No		If yes, optiona	I Wetland Site I	ID:			
HYDROLOGY										
	ay Indicators						Cocondonyla	diantara (minimum	of two roquir	·od\
Wetland Hydrolo						_		dicators (minimum	or two requir	ea)
		e is required; check all tha			D.0.)			il Cracks (B6)		
Surface Wat			-	ined Leaves (В9)	_	_	atterns (B10)		
High Water			Aquatic Fa			_		Lines (B16)		
Saturation (A	*		Marl Depo:		(04)	_	_	n Water Table (C2)	Í	
Water Marks	-			Sulfide Odor ((00)	_ Crayfish Bu		(00)	
Sediment De Drift Deposit	. , ,		•	•	on Living Roots	(C3)		Visible on Aerial Im		
Algal Mat or	,		•	of Reduced In	n Tilled Soils (C	6)		Stressed Plants (D c Position (D2)	1)	
Iron Deposits			•	Surface (C7)	•		Shallow Aq			
l —	/isible on Aerial Im	nagery (B7)	•	olain in Remai		_		raphic Relief (D4)		
	getated Concave		_ Oo. (2xp		,	_	FAC-Neutra			
Field Observatio										
Surface Water Pro		Yes Nox	Depth (inc	ches):						
Water Table Pres	ent?	Yes No x	_			Wetland Hy	drology Prese	ent? Yes	No	x
Saturation Preser	nt?	Yes No								
(includes capillary	y fringe)		- ' '	•						
Describe Recorde	ed Data (stream ga	auge, monitoring well, ae	erial photos, p	orevious inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	ogy observed									

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
Acer saccharum	50	Yes	FACU	Number of Domi That Are OBL, F			0	(A)
2. Prunus serotina	20	Yes	FACU		7.011, 0. 17.01		<u> </u>	_(' ')
				Total Number of Species Across			4	(B)
3								_(5)
1				Percent of Domi That Are OBL, F			0	(A/B
5				111017110 052, 1	7.011, 0.17.0.		<u> </u>	_(/ (/)
6				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	N	lultiply by:	_
	70	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
				FAC species	0	x 3 =	0	
2.				FACU species	140	x 4 =	560	
				UPL species	0	x 5 =	0	
3.				Column Totals:	140	(A)	560	(B)
l				Decision	o Index D/A	4		
5.				Prevalenc	e Index = B/A =	4		
5				Hydrophytic Ve	_			
7					est for Hydrophy		tation	
	0	= Total Cover			nce Test is >50% nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)		= Total Cover			logical Adaptatio		vide supportin	g
. Rosa multiflora	30	Yes	FACU		Remarks or on a			Ü
				Droblemeti	a I Ivalranhvija V/a		1 (Evalaia)	
. Rubus idaeus	60		FACU	Problemation				
B. Prunus serotina	10	No	FACU	¹ Indicators of hy		-		
l				be present, unle	ss disturbed or p	problema	itic.	
5				Definitions of V	egetation Strat	a:		
S				Tree – Woody p	lants 3 in. (7.6 c	m) or mo	ore in diameter	
7				at breast height	(DBH), regardles	ss of hei	ght.	
3.				Sapling/shrub -	- Woody plants I	ess than	3 in. DBH	
				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
				Herb – All herba	aceous (non-woo	dy) plan	ts, regardless	of
10				size, and woody				
1				Woody vines –	All woody vines	greater t	han 3.28 ft in	
2				height.	•	•		
	100	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
•								
				Hydrophytic				
				Vegetation				
·				Present?	Yes .	P	No <u>x</u>	
l.								
T		= Total Cove	r					

SOIL Sampling Point: DP-071 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) Texture Remarks 0-20 10YR 3/4 85 7.5 YR 5/8 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No Hydric Soils Present

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Cour	nty: Chauta	uqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-072	
Investigator(s):	James Ireland			Section, T	ownship, Range	: Town of Rip	olev			
Landform (hillslope,		Hillslope			f (concave, conv		onvex		Slope (%):	2
• • •		LRR R		Lat: 42.199078	•	_			Datum: N	
Subregion (LRR or I	-			Lat. 42.133010	j*IN L	ong: 79.744140°_		" Net Men		1000
Soil Map Unit Name							NWI classifica		<u>sea</u>	
Are climatic / hydrol	=		-				explain in Re			
		, or Hydrology				re "Normal Circums	stances" pres	sent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	needed, explain ar	ny answers i	n Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	npling point	locations, trai	nsects, in	nportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				_
Hydric Soil Preser		Yes	No		within a Wetla		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optional	l Wetland Site ID:				
HYDROLOGY										
	Indicators					9,	- sandany Ind	:- stara (minimum	of two roquir	الہ -
Wetland Hydrolo		' wheels about	" " -t -mahd					Cracks (D6)	of two require	<u>∌a)</u>
	•	e is required; check			(50)		Surface Soil			
Surface Water T				-Stained Leaves (I	B9)		Drainage Pat			
High Water T Saturation (A				ic Fauna (B13) Deposits (B15)			Moss Trim Li	mes (B16) Water Table (C2)	1	
Water Marks	•			gen Sulfide Odor ((C1)		Crayfish Burr		,	
Sediment De				ed Rhizospheres			=	sible on Aerial Im	nagery (C9)	
Drift Deposits			_	nce of Reduced Ire	_			tressed Plants (D		
Algal Mat or				t Iron Reduction in	, ,			Position (D2)	,	
Iron Deposits			_	Muck Surface (C7)	· ·		Shallow Aqui			
Inundation V	/isible on Aerial Im	nagery (B7)	Other ((Explain in Remar	rks)		Microtopogra	phic Relief (D4)		
Sparsely Veç	getated Concave S	Surface (B8)	<u>—</u>			F	FAC-Neutral	Test (D5)		
Field Observation	ons:	-								
Surface Water Pre	esent?	Yes No _		ı (inches):						
Water Table Prese	ent?	Yes No _		n (inches):		Wetland Hydrol	logy Presen	t? Yes	No _	Х
Saturation Presen		Yes No _	x Depth	ı (inches):						
(includes capillary		auge, monitoring we	-" assiglabot	provious insp	tions) if ovoils	-61-,				
Describe Recorde	d Data (stream ga	auge, morilloring we	il, aeriai priou	os, previous irispe	ections), ii avaiia	ible:				
Remarks:										
No wetland hydrolo	ıgy									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer rubrum	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
Acer saccharum			FACU	That Are OBE, I ACW, OIT AC.	(A)
3				Total Number of Dominant Species Across All Strata:	6 (B)
				<u> </u>	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	16.6 (A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover			1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0 x 2	2 = 0
1. Acer saccharum	20	Yes	FACU		3 = 60
2. Prunus serotina	60	Yes	FACU		4 = 800
3					5 = 0
4				Column Totals: 220 (A)) <u>860</u> (B)
5				Prevalence Index = B/A = 3.90	
6.				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic V	egetation
	80	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	80	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Solidago canadensis	40	Yes	FACU	data in Remarks or on a sepa	arate sheet)
Lolium perenne	40	Yes	FACU	Problematic Hydrophytic Vegeta	tion ¹ (Explain)
3.				¹ Indicators of hydric soil and wetland	hydrology must
4				be present, unless disturbed or proble	ematic.
5.				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm) or	more in diameter
7				at breast height (DBH), regardless of	height.
8.				Sapling/shrub – Woody plants less t	han 3 in. DBH
9.				and greater than or equal to 3.28 ft (1	m) tall.
10				Herb – All herbaceous (non-woody) p	. •
11.				size, and woody plants less than 3.28	
12.				Woody vines – All woody vines great height.	er than 3.28 ft in
_	80	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				1 -	No X
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-072 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 90 10YR 4/6 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-073	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, con		Concave	•	Slope (%):	1
, ,	,					•				V D63
Subregion (LRR or		LRR R		Lat: 42.198854°	°N i	Long: 79.74381			Datum: NA	1000
Soil Map Unit Name	e: As - Allis silt	loam					NWI classific	cation: Not Mapp	oed	
Are climatic / hydro	logic conditions or	n the site typical for	this time of ye	ear? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sigr	nificantly disturbed	? A	Are "Normal Circu	ımstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (II	f needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	: locations, t	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 016			
HYDROLOGY										
							Casandonyln	-!:- atara /minimum	-f two roquir	1/
Wetland Hydrolo						_	-	dicators (minimum	of two require	ed)
	•	e is required; check					-	il Cracks (B6)		
Surface Wat				-Stained Leaves (E	39)	X	_	atterns (B10)		
High Water				ic Fauna (B13)		_	_	Lines (B16)		
Saturation (A Water Marks	•			Deposits (B15) Igen Sulfide Odor (I	(04)	_	Dry-Seasor Crayfish Bu	n Water Table (C2)		
	s (B1) eposits (B2)			igen Suifide Odor (i zed Rhizospheres (- (C3)	-	ırrows (C8) Visible on Aerial Im	2220ry (C.9)	
Drift Deposit				nce of Reduced Iro	_		_	Stressed Plants (D		
Algal Mat or				nt Iron Reduction in	` '	(6) x		c Position (D2)	',	
Iron Deposit				Muck Surface (C7)	•		Shallow Aq	` '		
I —	√isible on Aerial Im	nagery (B7)		(Explain in Remark		X		raphic Relief (D4)		
	egetated Concave		_		•		FAC-Neutra			
Field Observation	ons:				I					
Surface Water Pr	esent?	Yes No _	x Depti	ก (inches):						
Water Table Pres	sent?	Yes No _	x Depth	h (inches):		Wetland Hyd	Irology Prese	ent? Yes x	K No	
Saturation Preser		Yes No _	x Depth	n (inches):						
(includes capillary	· · ·		<u> </u>							
Describe Recorde	ed Data (stream ga	gauge, monitoring we	₃ll, aerial phot	os, previous inspe	ections), if availa	able:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		ndicator Status	Dominance Test worksheet:	
1	70 00101	Ороскос.	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (0)
2				That Are OBL, FACW, or FAC:	1(A)
3				Total Number of Dominant Species Across All Strata:	1 (B)
					(5)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	00 (A/B)
5					
6				Prevalence Index worksheet:	
7		T 0		Total % Cover of: Multipl	y by:
-	0	= Total Cover		OBL species <u>65</u> x 1 = <u>65</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{35}{20}$ $x = \frac{70}{20}$ FAC species $x = \frac{35}{20}$ $x = \frac{70}{20}$	
1				FACU species $0 x4 = 0$,
2				UPL species 0 x 5 = 0	
3				Column Totals: 120 (A) 195	(B)
4					
5				Prevalence Index = B/A = 1.62	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%	ו
	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide	
Symphyotrichum lanceolatum	15	No	FACW	data in Remarks or on a separate she	eet)
2. Solidago rugosa	20	No	FAC	Problematic Hydrophytic Vegetation ¹ (Ex	rplain)
3. Carex lurida	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrolog	y must
4. Carex vulpinoidea	20	No	OBL	be present, unless disturbed or problematic.	
Eupatorium perfoliatum			FACW	Definitions of Vegetation Strata:	
6. Scirpus cyperinus	15		OBL	Tree – Woody plants 3 in. (7.6 cm) or more in	diameter
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in.	DBH
9				and greater than or equal to 3.28 ft (1 m) tall.	
9 10				Herb - All herbaceous (non-woody) plants, re	gardless of
				size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3	3.28 ft in
12				height.	
-	105	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes <u>x</u> No _	
4					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-073 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 10YR 3/2 60 10YR 5/8 MS Clay Loam 0-20 7.5YR 4/6 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 11, 20	:020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-074	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Riplev	-		
Landform (hillslope,		Terrace			f (concave, con		Convex		Slope (%):	2
	•	LRR R		Lat: 42.198645	•	Long: 79.74495			Datum: N	
Subregion (LRR or				Lat. 42.1300-0) IN	LOTIG. 13.14430				ADOC
Soil Map Unit Name							NWI classifi		ped	
-	-	the site typical for this	-				o, explain in R			
		, or Hydrology				Are "Normal Circu	ımstances" pr	esent? Yes	<u>x</u> No	·
Are Vegetation	, Soil	, or Hydrology	natui	rally problematic?	? (I	If needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach sit	e map s	showing sam	npling point	locations, tr	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	х	within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID):			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:						Secondary Ir	ndicators (minimum	of two requir	red)
_		is required; check all the	nat apply)					il Cracks (B6)		
Surface Wat				Stained Leaves (I	B9)			atterns (B10)		
High Water		_	_	Fauna (B13)	,		_	Lines (B16)		
Saturation (A	1 3)	_	Marl De	eposits (B15)		_	Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)	_	Hydrog	en Sulfide Odor ((C1)	_	Crayfish Bu	urrows (C8)		
Sediment De	eposits (B2)	_	Oxidize	ed Rhizospheres	on Living Roots	(C3)	Saturation '	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)	_	_ Presen	ce of Reduced Ire	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	* *	_	_	Iron Reduction in	•	(6)	- '	c Position (D2)		
Iron Deposits		_	_	uck Surface (C7)		_	Shallow Aq			
l —	isible on Aerial Im	- · · · · -	Other (Explain in Remar	rks)	_	_	raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio		· · · · · · · · · · · · · · · · · · ·	D 4b							
Surface Water Pro		Yes No x				Matland Hud	Oroce		No	
Water Table Pres Saturation Preser		Yes Nox Yes No _x				Wetland Hyd	rology riese	ent? Yes	No _	<u> </u>
(includes capillary		Yes NO A	рерии	(Inches).	Ī					
	/	auge, monitoring well, a	erial photo	os, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Malus spp.	40		_	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.					
3.				Total Number of Dominant Species Across All Strata:	3 (B)
				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
Crataegus crus-galli	40	Yes	FAC	FAC species 40	x 3 = 120
2					x 4 = <u>640</u>
3.				UPL species 0	x = 0
4.				Column Totals: 200	(A) <u>760</u> (B)
5.				Prevalence Index = B/A = 3.	8
6				Hydrophytic Vegetation Indicato	rs:
7.				1 - Rapid Test for Hydrophytic	
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	40	= Total Cover		 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations 	s ¹ (Provide supporting
Phleum pratense	40	Yes	FACU	data in Remarks or on a s	
Solidago canadensis	50	Yes	FACU	Problematic Hydrophytic Veg	etation ¹ (Explain)
Rosa multiflora	20		FACU	¹ Indicators of hydric soil and wetla	
Rubus idaeus	50	Yes	FACU	be present, unless disturbed or pro	·
5.		163	1700	Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm)	
				at breast height (DBH), regardless	
8				Sapling/shrub – Woody plants les	ss than 3 in. DBH
9				and greater than or equal to 3.28 ft	
9				Herb – All herbaceous (non-woody	/) plants, regardless of
11.				size, and woody plants less than 3	.28 ft tall.
12.				Woody vines – All woody vines grandle height.	eater than 3.28 ft in
12.	160	= Total Cover		neight.	
– Woody Vine Stratum (Plot size: 30 ft.)	100	= Total Cover			
1.					
				Hydrophytic	
2				Vegetation	
3				Present? Yes	<u>x</u> No
4					
	0	= Total Cover	<u>r </u>		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-074 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Loc² Color (moist) (inches) % Texture Remarks 10YR 3/4 80 10YR 4/6 10 MS Silt Loam 0-20 7.5YR 4/4 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No Hydric Soils found.

Project/Site:	South Ripley So	lar and Storage Project		City/Cour	nty: Chauta	auqua County	Sar	mpling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State: N	IY Sar	mpling Point:	DP-075	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of Riple	ev			
Landform (hillslope,		Terrace			of (concave, conv		nvex		Slope (%):	2
	•				•				Datum: N	
Subregion (LRR or	-	LRR R		Lat: 42.198369	J [*] N i	Long: 79.744668°W				1000
Soil Map Unit Name							WI classification		ped	
-	-	the site typical for this	-			o (If no, ex	xplain in Remai	rks.)		
		, or Hydrology				are "Normal Circumsta	ances" present	t? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (If	f needed, explain any	y answers in Re	emarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	howing sam	npling point	locations, trans	sects, imp	ortant fea	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	X	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID:				
HYDROLOGY										
Wetland Hydrolo							condary Indicate	•	of two require	ed)
		is required; check all the					urface Soil Cra			
Surface Wat			_	Stained Leaves (F	B9)		rainage Patterr			
High Water			_	Fauna (B13)			loss Trim Lines			
Saturation (A	•		_	eposits (B15)			ry-Season Wat)	
Water Marks				en Sulfide Odor (rayfish Burrows		(20)	
Sediment De			_	d Rhizospheres	_		aturation Visible			
Drift Deposit			_	ce of Reduced Iron			tunted or Stress	•	<i>i</i> 1)	
Algal Mat or Iron Deposits	` '		_	Iron Reduction in uck Surface (C7)	,	· —	eomorphic Pos hallow Aquitard			
	s (B5) /isible on Aerial Im		_	Explain in Remar			riallow Aquitaro licrotopographio			
	getated Concave S		_ Outor \.	Explain in remai	iksj		AC-Neutral Tes			
Field Observatio							10 1100	ж (20)		
Surface Water Pro		Yes Nox	Depth	(inches):	1					
Water Table Pres		Yes No x			1	Wetland Hydrolo	oav Present?	Yes	No	¥
Saturation Presen		Yes No x			1		9,			
(includes capillary										
<u> </u>	<u> </u>	auge, monitoring well, a	erial photo	s, previous inspe	ections), if availa	able:				
Domorko										
Remarks: No wetland hydrolo	gy observed									

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:		
,		ороског.	Otatao	Number of Domi			
I				That Are OBL, F.	ACW, or FAC:	(/	A)
2				Total Number of			
3				Species Across	All Strata:	3	B)
4				Percent of Domin		22.2	A (D)
5				That Are OBL, F.	ACW, OF FAC:	33.3	A/B)
6				Prevalence Inde	ex worksheet:		
7				Total % Co		Multiply by:	
	0	= Total Cover		OBL species	0	x 1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	<u> </u>	x 2 = 0	-
Crataegus crus-galli	75	Yes	FAC	FAC species	75	<u> </u>	•
2				FACU species	90		•
3				UPL species	0	- · · · · · · · · · · · · · · · · · · ·	, (D)
4.				Column Totals:	165	(A) <u>585</u>	(B)
				Prevalenc	e Index = B/A =	3.54	
5 6				Hydrophytic Ve	getation Indica	tors:	
					est for Hydrophy		
7					nce Test is >50%		
	75	= Total Cover		l —	nce Index is ≤3.0		
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting a separate sheet)	
1. Rubus idaeus	40	Yes	FACU	data iii i	tomano or on a	a coparato cricot,	
2. Solidago canadensis	20	Yes	FACU	Problemation	Hydrophytic Ve	egetation ¹ (Explain)	
3. Phleum pratense	15	No	FACU	¹ Indicators of hy	dric soil and wet	tland hydrology must	
4. Dactylis glomerata	15	No	FACU	be present, unles	ss disturbed or p	oroblematic.	
5				Definitions of V	egetation Strat	a:	
6				Tree – Woody pl	ants 3 in. (7.6 cr	m) or more in diameter	
7				at breast height ((DBH), regardles	ss of height.	
8.				Sapling/shrub -	- Woody plants I	ess than 3 in. DBH	
9.				and greater than	or equal to 3.28	3 ft (1 m) tall.	
				Herb – All herba	ceous (non-woo	ody) plants, regardless of	
10.				size, and woody	plants less than	3.28 ft tall.	
11					All woody vines	greater than 3.28 ft in	
12				height.			
	90	= Total Cover					
/oody Vine Stratum (Plot size: 30 ft.)							
l							
2				Hydrophytic Vegetation			
3				Present?	Yes _	Nox	
4.							
	0	= Total Cove	r				

SOIL Sampling Point: DP-075 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/4 85 10YR 5/8 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Proje	ect	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-076	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of Ri	iplev		<u> </u>	
Landform (hillslope,		Hillslope			ef (concave, con		Convex		Slope (%):	2
	•	LRR R		Lat: 42.199486		Long: 79.745655			Datum: N	
Subregion (LRR or I	-			Lat. 42.133400	יווי			" Nat Monr		ADOO
Soil Map Unit Name		silt loam; 3 to 8 percen					NWI classific		ped	
_	_	n the site typical for thi	-			o (If no,	, explain in R	emarks.)		
		, or Hydrology				Are "Normal Circum	nstances" pre	esent? Yes	X No)
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (I	If needed, explain a	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	ite map s	showing san	npling point	locations, tra	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No		within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID:				
INDER OF OCC										
HYDROLOGY							<u> </u>			
Wetland Hydrolo						<u>S</u>	-	dicators (minimum	of two requir	ed)
	•	e is required; check all						I Cracks (B6)		
Surface Water		ı	_	-Stained Leaves (B9)		=	atterns (B10)		
High Water T		,		c Fauna (B13)			Moss Trim L			
Saturation (A	•	,		eposits (B15)	(04)		-	Water Table (C2)	ł	
Water Marks		•		gen Sulfide Odor (Crayfish Bu		(C0)	
Sediment De Drift Deposits		•	_	ed Rhizospheres nce of Reduced In	_			/isible on Aerial Im Stressed Plants (D		
Algal Mat or			_	t Iron Reduction in	, ,	:6)		Position (D2)	1)	
Iron Deposits	, ,	-	_	luck Surface (C7)	,		Shallow Aqu	` '		
	/isible on Aerial Im	nagery (B7)		(Explain in Remai			•	raphic Relief (D4)		
_	getated Concave S	• • • •			-,		FAC-Neutra			
Field Observation		·								
Surface Water Pre	esent?	Yes No	x Depth	ı (inches):						
Water Table Prese	ent?	Yes No	x Depth	ı (inches):		Wetland Hydro	ology Prese	nt? Yes	No _	х
Saturation Presen	nt?	Yes No								
(includes capillary	<u> </u>									
Describe Recorde	ed Data (stream ga	auge, monitoring well,	, aerial photo	os, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		<u> </u>		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
-				
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
5				,
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $\frac{10}{0}$ $x = 20$ FAC species $x = 30$
1				FACU species 135 x 4 = 540
2				UPL species 0 x 5 = 0
3				Column Totals: 145 (A) 560 (B)
4				
5				Prevalence Index = B/A = 3.86
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Trifolium repens	40	Yes	FACU	data in Remarks or on a separate sheet)
Lolium perenne	65		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Plantago lanceolata			FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Onoclea sensibilis	10	No	FACW	Definitions of Vogetation Strate.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10				size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	145	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				
2.				Hydrophytic
3				Vegetation Present? Yes NoX
4				100 100
4		T-t-l C		
	0	= Total Cover		<u> </u>
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL Sampling Point: DP-076 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) Texture Remarks 0-20 10YR 3/4 95 7.5YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Coun	ty: Chauta	auqua County		Sampling Date:	Aug 11, 20	020
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State:	: NY	Sampling Point:	DP-079	
Investigator(s):	James Ireland			Section, To	wnship, Range	e: Town of I	Ripley	•		
		Eloodolain			(concave, con		Concave		Slope (%):	2
Landform (hillslope,	•	Floodplain			•			·	· · · · -	
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat: 42.196758°	°N I	Long: 79.73796	i8°W		Datum: NA	AD83
Soil Map Unit Name	: CkC - Chaut	tauqua silt loam, 8 t	to 15 percent s	lopes			NWI classific	cation: R5UBH		
Are climatic / hydrole	ogic conditions or	n the site typical for	this time of ye	ar? Yes	X No	o (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	re "Normal Circu	ımstances" pro	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	· (II	f needed, explair	ı any answers	in Remarks.)		
SUMMA	RY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	1
Hydrophytic Vege	tation Present?	Yes _	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes _	x No		within a Wetl	land?	Yes	x No		
Wetland Hydrolog	y Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 019			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		e is required; check	all that apply)				-	il Cracks (B6)	01 1110 10 42	<i>5</i> 4)
Surface Water		rio roquirou, citacii		Stained Leaves (E	39)	X	-	atterns (B10)		
High Water T			_	c Fauna (B13)	50,		-	Lines (B16)		
Saturation (A				eposits (B15)		<u> </u>	_	n Water Table (C2)	1	
Water Marks	•		_	gen Sulfide Odor (0	C1)		Crayfish Bu	•		
Sediment De	posits (B2)		Oxidize	ed Rhizospheres o	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Presen	nce of Reduced Iro	on (C4)		Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	• •		_	luck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other ((Explain in Remark	ks)	X		raphic Relief (D4)		
Sparsely Veg	getated Concave	Surface (B8)			•	X	FAC-Neutra	al Test (D5)		
Field Observation			_		_					
Surface Water Pre		Yes No _					_			
Water Table Prese		Yes No		(inches):		Wetland Hyd	Irology Prese	ent? Yes <u> </u>	x No	
Saturation Presen (includes capillary		Yes No	x Depth	(inches):						
<u> </u>	<u> </u>	auge, monitoring we	ell aerial photo	ns previous inspe	ections), if availa	ahle:				
	u 20.00 (2	2090,	on, aa	70, p. 0	, out. o., ,	ub.c.				
Remarks:	_	<u> </u>	_	_			_	<u> </u>	_	_

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	ороског.	Ciaido	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	
2.				That Are OBL, FACW, or FAC:3(A)	
3.				Total Number of Dominant Species Across All Strata: 3 (B)	
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 145 x 1 = 145	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species <u>20</u> x 2 = <u>40</u>	
1. Salix nigra	75	Yes	OBL	FAC species <u>40</u> x 3 = <u>120</u>	
2				FACU species 0 x 4 = 0	
3				UPL species <u>0</u> x 5 = <u>0</u> Column Totals: 205 (A) 305 (B)	
4				Column rotals. 200 (A) 300 (B)	
5				Prevalence Index = B/A = 1.48	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	75	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	70	- 10101 00101		4 - Morphological Adaptations ¹ (Provide supporting	
1. Eutrochium maculatum	50	Yes	OBL	data in Remarks or on a separate sheet)	
2. Solidago rugosa	40	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Symphyotrichum lanceolatum	20	No	FACW	¹ Indicators of hydric soil and wetland hydrology must	
4. Scirpus cyperinus	20	No	OBL	be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
9				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12.				height.	
	130	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				Present? Yes <u>x</u> No	
4			_		
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-079 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) Texture Remarks 10YR 3/1 7.5YR 4/6 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Proj	ject	City/Cour	nty: <u>Chautaı</u>	uqua County		Sampling Date:	Aug 11, 2020
Applicant/Owner:	Chautauqua silt	loam, 8 to 15 percer	nt slopes			Sta	ate: NY	Sampling Point:	DP-080
Investigator(s):	James Ireland			Section, To	ownship, Range:	: Town o	of Ripley		
Landform (hillslope,	, terrace, etc.):	Depression		Local relief	f (concave, conv	vex, none):	Concave	;	Slope (%):1
Subregion (LRR or	MLRA):	LRR R		Lat: 42.196939	9°NL	ong: 79.738	014°W		Datum: NAD83
Soil Map Unit Name	-	eld-Rock outcrop co	mplex; rolling	<u> </u>			NWI classifi	ication: Not Mapp	ped
•	-	n the site typical for t			x No	o (If	— f no, explain in F		
-	-	, or Hydrology	-			,	rcumstances" pr		x No
							•		X No
		, or Hydrology					ain any answers	·	tures, etc.
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ad Area			
Hydric Soil Prese		Yes	X No		within a Wetla		Yes	x No	
Wetland Hydrolog		Yes	x No		If yes, optional	l Wetland Site	ID: WL	-019	
LIVEROLOGY	_								
HYDROLOGY	· · · · · · · · · · · · · · · · · · ·						O-condony le	Parta /minimum	(to a received)
Wetland Hydrolo		· · · · · · · · · · · · · · · · · · ·				-	-	ndicators (minimum	of two requirea)
-		e is required; check a			- 31			oil Cracks (B6)	
X Surface Wat				r-Stained Leaves (F	B9)	-		Patterns (B10)	
X High Water				ic Fauna (B13)		-		Lines (B16)	
X Saturation (A Water Marks	•			Deposits (B15) ogen Sulfide Odor ((C1)	-		n Water Table (C2) urrows (C8)	
Sediment De				zed Rhizospheres		(C3)		Visible on Aerial Im	nageny (C9)
Drift Deposit				nce of Reduced Iro	_	(03)		Stressed Plants (D	
Algal Mat or			_	nt Iron Reduction in	, ,	- 6)		ic Position (D2)	1)
Iron Deposits				Muck Surface (C7)	•	-/ <u>-</u>	-	quitard (D3)	
	isible on Aerial Im	nagery (B7)		(Explain in Remar		-		graphic Relief (D4)	
	getated Concave	. , ,	_		•	_		ral Test (D5)	
Field Observatio									
Surface Water Pro		Yes x No	Dept	h (inches): 2					
Water Table Pres	ent?	Yes x No	Dept	h (inches): 0		Wetland H	ydrology Pres	ent? Yes <u>x</u>	<u>к</u> No
Saturation Preser		Yes x No	Dept	h (inches): 0					
(includes capillary		-141	" 'alaba						
Describe Recorde	ed Data (stream g	auge, monitoring we	ill, aeriai pnoi	tos, previous inspe	ections), if availa	ıble:			
Remarks:									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00 101	. <u></u>		Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2				That Ale Obl, FACW, OF FAC.	3(A)
3				Total Number of Dominant Species Across All Strata:	3 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
5					
6				Prevalence Index worksheet:	
7		T-4-LO		Total % Cover of:	Multiply by:
-	0	= Total Cover			1 = 70
Sapling/Shrub Stratum (Plot size: 15 ft.)				·	$2 = \frac{40}{3}$ 3 = 0
1					4 = 0
2					5 = 0
3				Column Totals: 90 (A	A) <u>110</u> (B)
4				_	
5				Prevalence Index = B/A = 1.22	2
6				Hydrophytic Vegetation Indicators	
7				X 1 - Rapid Test for Hydrophytic V X 2 - Dominance Test is >50%	Vegetation
	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹	
1. Juncus pylaei	40	Yes	OBL	data in Remarks or on a sep	parate sheet)
2. Carex lurida	30	Yes	OBL	Problematic Hydrophytic Veget	ation ¹ (Explain)
Eutrochium maculatum	30	Yes	OBL	¹ Indicators of hydric soil and wetland	d hydrology must
Eupatorium perfoliatum	20	No	FACW	be present, unless disturbed or prob	lematic.
5.				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) o	or more in diameter
7.				at breast height (DBH), regardless o	
8.				Sapling/shrub – Woody plants less	than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody)	plants, regardless of
11.				size, and woody plants less than 3.2	8 ft tall.
				Woody vines – All woody vines great	ater than 3.28 ft in
12		T 0		height.	
-	120	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes <u>x</u>	No
4					
	0	= Total Cove	•		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-080 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Muck 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) x Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): 0 No Remarks:

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 12, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-081	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, con		Concave		Slope (%):	2
	•				,	,				
Subregion (LRR or I	-	LRR R		Lat: 42.197515	°N ı	Long: 79.73620			Datum: N	AD63
Soil Map Unit Name	: CkC - Chatfie	eld-Rock outcrop co	omplex; rolling]			NWI classifi	cation: R5UBH		
Are climatic / hydrol	ogic conditions on	the site typical for	this time of ye	ear? Yes	<u>x</u> No	o (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	? A	Are "Normal Circu	mstances" pre	esent? Yes	<u>x</u> No)
Are Vegetation	, Soil	, or Hydrology	natı	urally problematic?	? (II	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, to	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes _	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetl	and?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 019			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		e is required; check	all that apply))			-	il Cracks (B6)	<u> </u>	
Surface Water				-Stained Leaves (E	B9)		-	atterns (B10)		
High Water 1				ic Fauna (B13)	•		_	Lines (B16)		
Saturation (A	1 3)		Marl D	Deposits (B15)		_	Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)		X Hydro	gen Sulfide Odor ((C1)	_	Crayfish Bu	ırrows (C8)		
Sediment De	eposits (B2)		Oxidiz	ed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Prese	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D)1)	
Algal Mat or				nt Iron Reduction in	•	(6) <u>x</u>	•	c Position (D2)		
Iron Deposits		(5-1)		Muck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other	(Explain in Remar	rks)	<u>X</u>		raphic Relief (D4)		
	getated Concave S	Surface (B8)			<u> </u>	<u>X</u>	FAC-Neutra	l Test (U5)		
Field Observatio		V No	·· Dont							
Surface Water Pre		Yes No Yes No		n (inches): h (inches):		Wetland Hyd	ralagy Dress	ent? Yes >	x No	
Saturation Presen		Yes No				Welland nya	Tology 1 1000	, 103 <u>,</u>	<u> </u>	
(includes capillary		165	X Dopu	I (IIIGIIGo).						
	<u> </u>	auge, monitoring w	ell, aerial phot	tos, previous inspe	ections), if availa	able:				
ļ										
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1		<u> </u>		Number of Dominant Species That Are OBL, FACW, or FAC: 1	(4)
2				That Ale Obl., FACW, OF FAC.	(A)
3				Total Number of Dominant Species Across All Strata: 1	(B)
					(D)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
5					
6				Prevalence Index worksheet:	
7		T 0		Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species 90 x 1 = 90	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 20 $x = 40$ FAC species 0 $x = 0$	
1				FACU species 0 x 4 = 0	
2				UPL species 0 x 5 = 0	
3				Column Totals: 110 (A) 130	
4					·
5				Prevalence Index = B/A = 1.18	
6				Hydrophytic Vegetation Indicators:	
7				X 1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)		- Total Cover		4 - Morphological Adaptations ¹ (Provide support	ting
Leersia oryzoides	90	Yes	OBL	data in Remarks or on a separate sheet)	
Phalaris arundinacea	20	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
3 Eutrochium maculatum			OBL	¹ Indicators of hydric soil and wetland hydrology must	
4.				be present, unless disturbed or problematic.	
				Definitions of Vegetation Strata:	
5.				Tree – Woody plants 3 in. (7.6 cm) or more in diamet	or
6				at breast height (DBH), regardless of height.	CI
7				Sapling/shrub – Woody plants less than 3 in. DBH	
				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardles	s of
10				size, and woody plants less than 3.28 ft tall	
11				Woody vines – All woody vines greater than 3.28 ft in	1
12				height.	
	120	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2.				Hydrophytic	
3.				Vegetation Present? Yes <u>x</u> No	
4					_
		= Total Cove	-		
Demonstrative (Incheste whether where he are not a second about he	0	= Total Cove			
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-081 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 10YR 5/8 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 12, 20	020
Applicant/Owner:	ConnectGEN, LI	LC				State	e: NY	Sampling Point:	DP-082	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of	Ripley	-		
Landform (hillslope,		Hillslope			of (concave, con	•	Concave		Slope (%):	4
					•	,			• • • •	
Subregion (LRR or I	-	LRR R		Lat: 42.197835	°N I	Long: 79.7359			Datum: N	AD63
Soil Map Unit Name	BsA - Busti s	silt loam; 0 to 3 perc	ent slopes				_ NWI classifi	ication: Not Mapp	ped	
Are climatic / hydrole	ogic conditions or	n the site typical for	this time of y	/ear? Yes	X No	o (If n	no, explain in F	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	J? A	Are "Normal Circ	umstances" pr	esent? Yes	X No	,
Are Vegetation	, Soil	, or Hydrology	na	turally problematic	? (#	lf needed, explai	in any answers	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations, f	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No	0	Is the Sample	ed Area				
Hydric Soil Preser		Yes	X No		within a Wetl		Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No	o	If yes, optiona	al Wetland Site II	ID: 019			
HYDROLOGY										
Wetland Hydrolo	nav Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
1		e is required; check	all that apply	·A		_		oil Cracks (B6)	Or two roga	<i></i>
Surface Water		/ 15 16quirou, orioci.		er-Stained Leaves (F	R9)			Patterns (B10)		
High Water T				atic Fauna (B13)	D9)	_^	_	Lines (B16)		
Saturation (A				Deposits (B15)		_		n Water Table (C2)	ı	
Water Marks	•			ogen Sulfide Odor ((C1)	_		urrows (C8)		
Sediment De				ized Rhizospheres		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Prese	ence of Reduced Iro	on (C4)	· _	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Rece	ent Iron Reduction in	n Tilled Soils (C	(6) <u>x</u>	Geomorphi	ic Position (D2)		
Iron Deposits	s (B5)		Thin	Muck Surface (C7)	1	_	_ Shallow Ac	quitard (D3)		
	isible on Aerial Im		Other	r (Explain in Remar	rks)	X		graphic Relief (D4)		
Sparsely Vec	getated Concave	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observation										
Surface Water Pre		Yes No _								
Water Table Prese		Yes No		oth (inches):		Wetland Hy	drology Prese	ent? Yes <u> </u>	x No_	
Saturation Presen (includes capillary		Yes No	x Dep	th (inches):		İ				
 	<u> </u>	auge, monitoring we	ell, aerial pho	otos, previous insp	ections), if avails	able:				
	, a 2 a.a. (c		on, 222 2 1	,	,,					
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:	
,		ороског.	Otatao	Number of Domin		_
				That Are OBL, FA	ACW, or FAC:	5(A)
2				Total Number of I		
3				Species Across A	III Strata:	5(B)
4				Percent of Domin		400 (4.47)
5				That Are OBL, FA	ACW, or FAC:	(A/B
6.				Prevalence Inde	x worksheet:	
7				Total % Cov		Multiply by:
	0	= Total Cover		OBL species	70	x 1 = <u>70</u>
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	95	x 2 = <u>190</u>
1. Acer rubrum	20	Yes	FAC	FAC species	20	x 3 = <u>60</u>
2. Salix alba	75	Yes	FACW	FACU species	0	
3.				UPL species	0	x 5 = 0
4.				Column Totals:	185	(A) <u>320</u> (B)
				Prevalence	e Index = B/A =	1.72
5		-				
6				Hydrophytic Veg	est for Hydrophy	
7				X 2 - Dominan		
	95	= Total Cover		X 3 - Prevalen		
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting a separate sheet)
1. Typha angustifolia	30	Yes	OBL	data in R	temarks or on a	a separate sneet)
2. Leersia oryzoides	40	Yes	OBL	Problematic	Hydrophytic Ve	egetation ¹ (Explain)
3. Thelypteris palustris	20	Yes	FACW	¹ Indicators of hyd	Iric soil and wet	tland hydrology must
4				be present, unles	s disturbed or p	problematic.
5.				Definitions of Ve	egetation Strat	a:
					_	m) or more in diameter
6				at breast height (I	•	•
7 8				Sanling/shrub –	Woody plants I	ess than 3 in. DBH
0				and greater than		
9.				Herb – All herbac	ceous (non-woo	ody) plants, regardless of
10				size, and woody p		
11				Woody vines – A	II woody vines	greater than 3.28 ft in
12				height.		
	90	= Total Cover				
Voody Vine Stratum (Plot size: 30 ft.)						
I						
2.				Hydrophytic		
3				Vegetation Present?	Yes _	No
<u> </u>				. 1000	.03	
4		T · · · ·				
	0	= Total Cove	r			

SOIL Sampling Point: DP-082 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 10YR 5/8 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Projec	ot	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 12, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-083	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of R	Ripley			
Landform (hillslope,		Hillslope			of (concave, con		Concave		Slope (%):	4
	•				•	,			Datum: N	
Subregion (LRR or I	-	LRR R		Lat: 42.198246	i°N i	Long: 79.73603				ADOS
Soil Map Unit Name		silt loam; 0 to 3 percent					NWI classific		ped	
Are climatic / hydrol	logic conditions or	n the site typical for this	s time of year	ar? Yes	<u>x</u> N	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	J? A	Are "Normal Circur	mstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (li	lf needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	ite map s	showing sam	npling point	locations, tr	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	х х	within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID):			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all	that apply)				Surface Soi	il Cracks (B6)		
Surface Wate	ær (A1)	-	Water-	-Stained Leaves (E	B9)	_	Drainage Pa	atterns (B10)		
High Water 1	Γable (A2)	-	Aquatio	c Fauna (B13)		_	Moss Trim I	∟ines (B16)		
Saturation (A	43)	-	Marl De	eposits (B15)		_	Dry-Season	Water Table (C2)	1	
Water Marks	s (B1)	-	Hydrog	gen Sulfide Odor ((C1)	_	Crayfish Bu	rrows (C8)		
Sediment De		-		ed Rhizospheres	=	(C3)	•	Visible on Aerial Im		
Drift Deposits	* *	-		nce of Reduced Iro	, ,	_	•	Stressed Plants (D	1)	
Algal Mat or	• •	-		t Iron Reduction ir	-	:6)	•	c Position (D2)		
Iron Deposits		(D=)		luck Surface (C7)		_	Shallow Aq			
	/isible on Aerial Im		Other ((Explain in Remar	rks)	_		raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	ıl Test (D5)		
Field Observatio		··· N=	54	2 1 1	Ī					
Surface Water Pre		Yes No			Ī	West and Head	.	:2 V	N-	
Water Table Prese		Yes No		n (inches):	Ī	Wetland Hydi	rology Prese	ent? Yes	No _	х
Saturation Present		Yes No	x Deptn	(inches):	Ī					
(includes capillary Describe Recorde		auge, monitoring well,	aerial photo	os. previous inspr	ections), if availa	able:				
	, a ,	, , , , , , , , , , , , , , , , , , ,			,,					
Remarks:										
No wetland hydrolo	gy observea									

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
Acer saccharum	85	Yes	FACU	Number of Domi That Are OBL, F.		1 (A)
2. Fagus grandifolia	10	No	FACU			
3. Prunus serotina	5	No	FACU	Total Number of Species Across		5 (B)
- Trando dorouna		140	1 400			(5)
4				Percent of Domin		20 (A/B)
5						(/////
6				Prevalence Inde	ex worksheet:	
7				Total % Co	ver of:	Multiply by:
	100	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	20	x 2 = 40
1. Fagus grandifolia	30	Yes	FACU	FAC species	0	x 3 = 0
2. Fraxinus pennsylvanica	20	Yes	FACW	FACU species	190	
3.				UPL species	0	x 5 = 0
				Column Totals:	210	(A) <u>800</u> (B)
4				Prevalenc	e Index = B/A =	3.80
5. -						
6.				Hydrophytic Ve	_	
7					est for Hydrophy nce Test is >50%	
	50	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting
1. Lolium perenne	30	Yes	FACU	data in f	Remarks or on a	a separate sheet)
2. Rubus idaeus	30	Yes	FACU	Problematic	Hydrophytic Ve	egetation ¹ (Explain)
3.						and hydrology must
				be present, unles		·
4						
5				Definitions of V	egetation Strat	a:
6						m) or more in diameter
7				at breast height ((DBH), regardles	ss of height.
8						ess than 3 in. DBH
9				and greater than	or equal to 3.28	3 ft (1 m) tall.
10.						dy) plants, regardless of
11.				size, and woody	plants less than	3.28 ft tall.
				Woody vines – height.	All woody vines	greater than 3.28 ft in
12		T 0		neight.		
	60	= Total Cover	'			
/oody Vine Stratum (Plot size: 30 ft.)						
l						
2.				Hydrophytic Vegetation		
3				Present?	Yes _	No×
4.						
	0	= Total Cove	ır			
	U	= Total Cove	•1	1		

SOIL Sampling Point: DP-083 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 80 7.5YR 4/6 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 17, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-085	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•	· 	
Landform (hillslope,		Hillslope			f (concave, con	•	Convex	,	Slope (%):	2
					•	·			Datum: NA	
Subregion (LRR or I	-	LRR R		Lat: 42.196645	<u>,°N</u>	Long: 79.73586				1000
Soil Map Unit Name		silt loam; 3 to 8 perc					NWI classifi		ed	
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of y	ear? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	l? A	Are "Normal Circu	ımstances" pr	esent? Yes	x No	'
Are Vegetation	, Soil	, or Hydrology	nat	:urally problematic?	? (I	lf needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations, tr	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No)	Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No)	within a Wetl	land?	Yes	x No		l
Wetland Hydrolog	gy Present?	Yes	x No	,	If yes, optiona	al Wetland Site ID	D: 020			
HYDROLOGY										
Wetland Hydrolo	any Indicators:						Secondary Ir	dicators (minimum	of two require	ed)
_		= in required; check	all that annly	Α		_	-	· · · · · · · · · · · · · · · · · · ·	OI two require	3 0)
Surface Water		e is required; check		r-Stained Leaves (E	Pa)		-	il Cracks (B6) atterns (B10)		
High Water 1				tic Fauna (B13)	D8)	<u>X</u>	_	Lines (B16)		
Saturation (A				Deposits (B15)		_	_	n Water Table (C2)	i	
Water Marks	•			ogen Sulfide Odor ((C1)		Crayfish Bu			
Sediment De				zed Rhizospheres		s (C3)	_	Visible on Aerial Im	nagery (C9)	
Drift Deposits				ence of Reduced Iro	_		_	Stressed Plants (D		
Algal Mat or	Crust (B4)		Recer	nt Iron Reduction ir	n Tilled Soils (C	(26) x	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im	• • • •	Other	r (Explain in Remar	rks)	<u>X</u>	_	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre	esent?	Yes No _		.h (inches):		İ				
Water Table Pres	ent?	Yes No _		th (inches):		Wetland Hyd	Irology Prese	ent? Yes x	No_	
Saturation Presen		Yes No _	x Dept	h (inches):		İ				
(includes capillary		auge, monitoring we	all porial pho	etaa provious inspe	actions) if avails	ahla:				
Describe Mecorde	ili Dala (Sireain ye	auge, monitoring wi	ell, aeriai prio	tos, previous irispe	3000115), 11 avand	able.				
Remarks:										

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Populus tremuloides	20	Yes	FACU	Number of Domi That Are OBL, F.			1	(A)
								(' ',
				Total Number of Species Across			2	(B)
								(
				Percent of Domin			50	(A/E
				,				
				Prevalence Inde				
·				Total % Co	ver of:	N	lultiply by:	_
	20	= Total Cover		OBL species	60	x 1 =		
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species	20			
				FAC species	0	•	0	
				FACU species	50	-	200	
				UPL species Column Totals:	130	•	0	
				Column 10tals:	130	_ (A)	300	(B
				Prevalenc	e Index = B/A =	2.30		
				Hydrophytic Ve	getation Indica	tors:		
				' ' '	est for Hydrophy		tation	
					nce Test is >50%			
	0	= Total Cover		X 3 - Prevaler				
b Stratum (Plot size: 5 ft.)	<u></u>				ogical Adaptatio Remarks or on a			ng
Agrostis stolonifera	20	No	FACW	data iii i	rtemants of on a	зорага	ic sneet)	
Solidago canadensis	25	No	FACU	Problemation	c Hydrophytic Ve	egetation	¹ (Explain)	
Potentilla simplex	5	No	FACU	¹ Indicators of hy	dric soil and wet	land hyd	Irology must	
Scirpus atrovirens	40	Yes	OBL	be present, unles	ss disturbed or p	roblema	itic.	
. Eupatorium perfoliatum	20	No	FACW	Definitions of V	egetation Strat	a:		
. Juncus pylaei	20	No	OBL	Tree – Woody pl	lants 3 in. (7.6 cr	m) or mo	ore in diamete	r
				at breast height	·			
				Sapling/shrub -	- Woody plants le	ess than	3 in. DBH	
				and greater than				
·				Herb – All herba	ceous (non-woo	dy) plan	ts, regardless	of
0				size, and woody				
1				Woody vines –	All woody vines	greater t	han 3.28 ft in	
2				height.	·			
	150	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
				Vegetation Present?	Yes _	Х М	No	
•					103 _	·		
·								
	0	= Total Cove	r					

SOIL Sampling Point: DP-085 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 10YR 5/8 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Hydric Soil Present? Yes Depth (inches): 9 No Remarks:

Project/Site:	South Ripley So	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 17, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-086	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Riplev	•		
Landform (hillslope,		Hillslope			f (concave, con		Convex	•	Slope (%):	1
	•				•				Datum: NA	V D83
Subregion (LRR or I	-	LRR R		Lat: 42.195184°	N i	Long: 79.73574				1000
Soil Map Unit Name		annery silt loam; 0 to 3 p					_ NWI classific		ed	
Are climatic / hydrol	ogic conditions on	n the site typical for this t	ime of yea	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	iicantly disturbed	? A	re "Normal Circu	ımstances" pre	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (II	f needed, explair	າ any answers	in Remarks.)		
SUMM	ARY OF FIND	INGS – Attach site	e map s	howing sam	pling point	locations, t	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	x	within a Wetl		Yes	No >	<u> </u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
TWDDOLOOV										
HYDROLOGY										**
Wetland Hydrolo						_	-	dicators (minimum	of two require	ed)
	•	e is required; check all th		<u> </u>				il Cracks (B6)		
Surface Water 7		_	_	Stained Leaves (E	39)	_	_	atterns (B10)		
High Water 7		_	_	Fauna (B13)		_		Lines (B16)		
Saturation (A	·	_	_	eposits (B15)	(04)	_	_	Water Table (C2)		
Water Marks		_	_	en Sulfide Odor ((00)	Crayfish Bu		- ~~~ (CO)	
Sediment De Drift Deposits		_	_	ed Rhizospheres of ce of Reduced Iro	_	(C3)	_	Visible on Aerial Im Stressed Plants (D		
Algal Mat or		_	_	Iron Reduction in	-	-6/		c Position (D2)	1)	
Iron Deposits	, ,	_	_	uck Surface (C7)	•	<u> </u>	Shallow Aq			
	/isible on Aerial Im		_	Explain in Remarl			_	raphic Relief (D4)		
	getated Concave S		_		No _j		FAC-Neutra			
Field Observatio		741.455 (2.5)					=	. 1001 (= 0)		
Surface Water Pre		Yes Nox	Depth	(inches):						
Water Table Pres		Yes No x		(inches):		Wetland Hyd	drology Prese	ent? Yes	No _	x
Saturation Presen		Yes No x		,						
(includes capillary			, -							
		auge, monitoring well, as	erial photo	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

					· · · · · · · · · · · · · · · · · · ·
Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksh	eet:
Populus tremuloides	80	Yes	FACU	Number of Dominant Sper That Are OBL, FACW, or	
2					
3.				Total Number of Dominan Species Across All Strata:	
				Percent of Dominant Spec That Are OBL, FACW, or	
5					
6				Prevalence Index works	
7		= Total Cover		Total % Cover of: OBL species 0	Multiply by:
policy (Charles Chrotum (Diet circ. 45 ft.)		= Total Cover			x 1 = 0 x 2 = 0
apling/Shrub Stratum (Plot size: 15 ft.)	_				x = 0 x = 0
1. Populus tremuloides	30	Yes	FACU		x 4 = 720
2				UPL species 0	
3.				Column Totals: 180	(A) <u>720</u> (B)
4					
5				Prevalence Index =	: B/A = 4
6				Hydrophytic Vegetation	
7					drophytic Vegetation
	30	= Total Cover		2 - Dominance Test	
erb Stratum (Plot size: 5 ft.)		- rotal cover			laptations ¹ (Provide supporting
Rosa multiflora	20	Yes	FACU	data in Remarks	or on a separate sheet)
2. Lolium perenne	60	Yes	FACU	Problematic Hydroph	nytic Vegetation ¹ (Explain)
3. Potentilla simplex	10	No	FACU	1.	and wetland hydrology must
		140	TACO	be present, unless disturb	• •
4					•
b				Definitions of Vegetation	
6.				at breast height (DBH), re	. (7.6 cm) or more in diameter
7					-
8.				Sapling/shrub – Woody pand greater than or equal	
9					
10				size, and woody plants les	on-woody) plants, regardless of ss than 3.28 ft tall.
11				Woody vines - All woody	vines greater than 3.28 ft in
12				height.	vines greater than 5.20 ft in
	90	= Total Cover			
/oody Vine Stratum (Plot size: 30 ft.)					
l					
2.				Hydrophytic	
				Vegetation Present? Ye	a Na Y
				riesent? Te	es Nox
4.					
	0	= Total Cove	r		

SOIL Sampling Point: DP-086 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-11 10YR 3/4 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Bedrock Hydric Soil Present? Yes No x Depth (inches): 9 Remarks: Hit rock at each hole dug No Hydric Soils Found

Project/Site:	South Ripley So	lar and Storage Pro	ject	City/Coun	ty: Chauta	auqua County		Sampling Date:	Aug 17, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-087	
Investigator(s):	James Ireland			Section, To	wnship, Range	e: Town of	Riplev	-	·	
Landform (hillslope,		Depression			(concave, con		Concave	•	Slope (%):	1
, , ,	,					•		`		1 N D 0 2
Subregion (LRR or I	MLRA):	LRR R		Lat: 42.195189°	°N I	Long: 79.73507	′0°W		Datum: NA	4D83
Soil Map Unit Name	e: ErA - Erie ch	annery silt loam; 0 t	to 3 percent sl	iopes			NWI classific	cation: Not Mapp	ed	
Are climatic / hydrol	ogic conditions or	the site typical for	this time of ye	ar? Yes	X No	o (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circu	ımstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	e (II	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Presei		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site ID	D: 021			
HYDROLOGY										
Wetland Hydrolo	ay Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
_		io roquirod: obook	all that apply)					·	or two require	su)
Surface Water		is required; check		-Stained Leaves (E	30)			il Cracks (B6) atterns (B10)		
High Water 1			_	c Fauna (B13)	59,	<u> </u>	_	Lines (B16)		
Saturation (A				eposits (B15)				n Water Table (C2)		
Water Marks	•			gen Sulfide Odor (C1)		Crayfish Bu			
Sediment De				ed Rhizospheres o	•	(C3)		Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)	<u>-</u>	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	Tilled Soils (C	6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	luck Surface (C7)			Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other ((Explain in Remarl	ks)	<u>X</u>	_	raphic Relief (D4)		
Sparsely Veg	getated Concave S	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observatio		_	_	_	_		_	_	_	
Surface Water Pre		Yes No _								
Water Table Prese		Yes No _		n (inches):		Wetland Hyd	drology Prese	ent? Yes x	<u>k</u> No_	
Saturation Present (includes capillary		Yes No _	x Depth	ı (inches):						
	<u> </u>	auge, monitoring we	aerial phot	os previous inspe	ections), if availa	ahle:				
	74 2 4 1	149 0,	/ii, 00	00, p. 0	, out. o., ,	ab.c.				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
2.				That Are OBL, FACW, OF FAC.	_(A)
3				Total Number of Dominant Species Across All Strata: 2	(B)
<u> </u>					_(2)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
5					_` ′
6				Prevalence Index worksheet:	
7		T		Total % Cover of: Multiply by:	_
0. 1. (0) 1. 0 (0)	0	= Total Cover		OBL species 105 x 1 = 105	_
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species $\frac{25}{}$ $x = \frac{50}{}$ FAC species $\frac{0}{}$ $x = \frac{50}{}$	
1				FACU species 5 x 4 = 20	
2				UPL species 0 x 5 = 0	
3				Column Totals: 135 (A) 175	(B)
4					
5				Prevalence Index = B/A = 1.29	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	Ω	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide supporting	g
1. Leersia oryzoides	15	No	OBL	data in Remarks or on a separate sheet)	
2. Juncus pylaei	60	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
Scirpus atrovirens	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must	
4. Cyperus eragrostis	25		FACW	be present, unless disturbed or problematic.	
5. Lotus corniculatus	5		FACU	Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
				at breast height (DBH), regardless of height.	
8				Sapling/shrub – Woody plants less than 3 in. DBH	
0				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless	of
10.				size, and woody plants less than 3.28 ft tall.	
11.				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
	135	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	_				
1				Hydrophytic	
2				Vegetation	
3.				Present? Yes X No	
4					
	0	= Total Cove	ſ		
Remarks: (Include photo numbers here or on a separate shee	et.)				

SOIL Sampling Point: DP-087 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 4/6 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	lar and Storage Projec	ot	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 17, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-088	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of Ri	inlev			
Landform (hillslope,		Hillslope			ef (concave, conv		Convex		Slope (%):	1
, ,		•			•	_				VD63
Subregion (LRR or I	-	LRR R		Lat: 42.195328	3°N ı	Long: 79.734862			Datum: N	ADOS
Soil Map Unit Name	g: ErA - Erie ch	nannery silt loam; 0 to	3 percent slo	opes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions or	n the site typical for thi	s time of year	ar? Yes	<u>x</u> No	o (If no,	, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	j? A	re "Normal Circum	nstances" pre	esent? Yes	<u>x</u> No	,
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	f needed, explain a	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	ite map s	showing sam	npling point	locations, tra	ansects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Preser		Yes	No	Х	within a Wetl		Yes	No	x	İ
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID:				ļ
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					S	Secondary In	dicators (minimum	of two requir	ed)
		e is required; check all	that apply)				-	il Cracks (B6)		
Surface Wate	•			Stained Leaves (I	(B9)			atterns (B10)		
High Water T		-		c Fauna (B13)	•	_	Moss Trim L			
Saturation (A	43)		Marl De	eposits (B15)		_	Dry-Season	water Table (C2))	
Water Marks	; (B1)		Hydrog	gen Sulfide Odor ((C1)	_	Crayfish Bu	rrows (C8)		
Sediment De	posits (B2)	-		ed Rhizospheres	=	(C3)	Saturation \	visible on Aerial Im	nagery (C9)	
Drift Deposits		-		nce of Reduced Ire	, ,	_		Stressed Plants (D	1)	
Algal Mat or	, ,	-		t Iron Reduction in	•	6)		c Position (D2)		
Iron Deposits		-		luck Surface (C7)			Shallow Aqu			
	isible on Aerial Im	- · · · · -	Other ((Explain in Remar	rks)			raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	Il Test (D5)		
Field Observation		V - No	Donah	(° \).	1					
Surface Water Pre		Yes No		,	1	Matland Hudr	-ly Broso		No	
Water Table Prese		Yes No: Yes No:		(inches):		Wetland Hydro	Ology Fiese	ent? Yes	No _	Х
(includes capillary		res no	X Debui	(Inches).	Ī					
<u> </u>	<u> </u>	auge, monitoring well,	aerial photo	os, previous inspr	ections), if availa	able:				
	•	<u> </u>	•	,	**					
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	Ороскос.	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (4)
2				That Ale Obl, FACW, OF FAC.	(A)
3				Total Number of Dominant Species Across All Strata:	1 (B)
					(5)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
5				, , , , , , ,	(1 =)
6				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
-	0	= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				1	$ \begin{array}{rcl} x & 2 &=& 0 \\ x & 3 &=& 0 \end{array} $
1					$x = \frac{6}{500}$
2				UPL species 0	x 5 = 0
3					(A) <u>500</u> (B)
4					
5				Prevalence Index = B/A = 4	
6				Hydrophytic Vegetation Indicate	ors:
7				1 - Rapid Test for Hydrophyti	c Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)		- 10101 00101		4 - Morphological Adaptation	
Holcus lanatus	65	Yes	FACU	data in Remarks or on a s	separate sheet)
2. Lolium perenne	20	No	FACU	Problematic Hydrophytic Veg	etation ¹ (Explain)
Solidago canadensis	20	No	FACU	¹ Indicators of hydric soil and wetla	and hydrology must
Taraxacum officinale	20		FACU	be present, unless disturbed or pre-	oblematic.
5.		140	17100	Definitions of Vegetation Strata:	
				Tree – Woody plants 3 in. (7.6 cm	
6				at breast height (DBH), regardless	
8				Sapling/shrub – Woody plants le	ss than 3 in DBH
·				and greater than or equal to 3.28 f	
9				Herb – All herbaceous (non-wood	y) plants, regardless of
10.				size, and woody plants less than 3	- · · · -
11				Woody vines – All woody vines gr	eater than 3.28 ft in
12				height.	
-	125	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				=	Nox
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-088 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/4 80 10YR 5/8 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

Project/Site:	South Ripley Sol	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-089	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Terrace			f (concave, con		Convex		Slope (%):	1
, ,	,				,					V D03
Subregion (LRR or I	-	LRR R		Lat: 42.198003	<u>°N</u>	Long: 79.72508			Datum: N	ADOS
Soil Map Unit Name	ErB - Erie ch	annery silt loam; 3 to 8 p	ercent slo	pes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions on	the site typical for this t	ime of yea	ar? Yes	X No	o (If no	o, explain in R	temarks.)		
Are Vegetation	X , Soil	, or Hydrology	signif	icantly disturbed	i? A	re "Normal Circu	ımstances" pr	esent? Yes	x No	,
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (I	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	map s	howing sam	ıpling point	locations, t	ransects,	important feat	tures, etc.	,
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog	y Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	idicators (minimum	of two require	ed)
_		is required; check all th	at apply)					il Cracks (B6)	-	
Surface Water				Stained Leaves (F	B9)			atterns (B10)		
High Water 1		_	-	Fauna (B13)	,	_	_	Lines (B16)		
Saturation (A	43)	_	Marl De	posits (B15)		· 	Dry-Seasor	n Water Table (C2)	ı	
Water Marks	; (B1)	_	Hydroge	en Sulfide Odor ((C1)	_	Crayfish Bu	ırrows (C8)		
Sediment De	posits (B2)	_	Oxidized	d Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	-	_	_	ce of Reduced Iro	` '	_	_	Stressed Plants (D	1)	
Algal Mat or	* *	_	_	Iron Reduction in	•	6)	_	c Position (D2)		
Iron Deposits	-		_	uck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other (E	Explain in Remar	'ks)	_		raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio		V - Ne v	Danth	e -1						
Surface Water Pre		Yes No x				Matland Uve	drology Prese	40 Vae	No	
Water Table Present Saturation Present		Yes Nox Yes No _x				Wellanu nyu	Trology Fresc	ent? Yes	No _	<u> </u>
(includes capillary		Yes NO A	_ Depuii	(Inches).						
	<u> </u>	auge, monitoring well, ac	erial photo	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

							Point: DP-089	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Tes	t worksheet:			
1				Number of Domi			0	(
				That Are OBL, F	ACW, or FAC:		0	_(A)
2				Total Number of			0	(D)
3				Species Across	Ali Stiata.		2	_(B)
4				Percent of Domi That Are OBL, F			0	(A/B)
5				matric obe, i	7.000, 0117.0.		•	_(^/D)
6				Prevalence Inde	ex worksheet:			
7				Total % Co			ultiply by:	_
	0	= Total Cover		OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species			0	
l				FAC species	0	_	0	
2.				FACU species		-	460	
3.				UPL species	0	_		
4.				Column Totals:	115	_ (A)	460	— (B)
				Prevalenc	e Index = B/A =	4		
5 6				Hydrophytic Ve	getation Indica	tors:		
					est for Hydrophy		tation	
7					nce Test is >50%			
	0	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					logical Adaptatio Remarks or on a			g
Lolium perenne	50	Yes	FACU	data iii	remains of off c	осранас	c snoot)	
2. Phleum pratense	20	No	FACU	Problemation	c Hydrophytic Ve	egetation	¹ (Explain)	
3. Trifolium repens	30	Yes	FACU	¹ Indicators of hy	dric soil and wet	land hyd	rology must	
Taraxacum officinale	15	No	FACU	be present, unle	ss disturbed or p	oroblema	tic.	
5.				Definitions of V	egetation Strat	a:		
6.				Tree – Woody p	_		re in diameter	
_				at breast height	,	•		
7 8				Sapling/shrub -	- Woody plants I	ess than	3 in DBH	
0				and greater than				
9				Herb – All herba	iceous (non-woo	dv) plant	s. regardless o	of
10				size, and woody				
11				Woody vines –	All woody vines	greater th	nan 3.28 ft in	
12				height.		•		
	115	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
·								
2.				Hydrophytic				
				Vegetation	Yes _		lo Y	
J				Present?	162	N	lo <u>x</u>	
4.								
" .		= Total Cove	-					

SOIL Sampling Point: DP-089 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 90 7.5YR 4/4 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soil present

Project/Site:	South Ripley Sol	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-091	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Terrace			f (concave, con		Convex		Slope (%):	1
, ,	,				•	,				V D83
Subregion (LRR or I		LRR R		Lat: 42.200940	<u>'°N</u>	Long: 79.72615			Datum: N	AD63
Soil Map Unit Name	: ErB - Erie cha	annery silt loam; 3 to 8 p	ercent slo	opes			_ NWI classifi	cation: Not Mapp	ed	
Are climatic / hydrol	ogic conditions on	the site typical for this t	ime of yea	ar? Yes	X No	o (If no	o, explain in R	lemarks.)		
Are Vegetation	X , Soil	, or Hydrology	signi	ficantly disturbed	l? A	Are "Normal Circu	ımstances" pr	esent? Yes	x No	,
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic?	? (If	If needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	map s	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Presei		Yes	— No	X	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
		lures here or in a separa cultural field. Recentl			es					
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		is required; check all th	at apply)					il Cracks (B6)		
Surface Water				Stained Leaves (E	B9)			atterns (B10)		
High Water 1		_	_	Fauna (B13)	,	_	_	Lines (B16)		
Saturation (A	1 3)	_	Marl De	eposits (B15)		<u> </u>	_ _ Dry-Seasor	n Water Table (C2)	!	
Water Marks	; (B1)	_	Hydrog	en Sulfide Odor ((C1)	_	Crayfish Bu	ırrows (C8)		
Sediment De	posits (B2)	_	Oxidize	ed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)	_	Presen	ce of Reduced Iro	on (C4)	_	_ Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphi	c Position (D2)		
Iron Deposits		_	_	uck Surface (C7)		_	Shallow Aq			
	isible on Aerial Im		Other (I	Explain in Remar	rks)	_	_	raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio						_ 				
Surface Water Pre		Yes Nox	 '	(inches):		i				
Water Table Pres		Yes Nox		(inches):		Wetland Hyd	drology Prese	ent? Yes	No	Х
Saturation Presen		Yes Nox	_ Depth	(inches):		İ				
(includes capillary	<u> </u>	**	: 1 -b -4-			• • •				
Describe Recorde	d Data (stream ga	auge, monitoring well, as	rial photo	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

							Point: DP-09	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Tes	t worksheet:			
		<u> </u>		Number of Domi			0	(4)
1.				That Are OBL, F	ACW, or FAC:		0	_(A)
2				Total Number of			0	(D)
3.				Species Across	All Strata:		2	_(B)
4				Percent of Domi			0	(4 (5)
5				That Are OBL, F	ACW, or FAC:		0	_(A/B)
6				Prevalence Inde	ex worksheet:			
7				Total % Co		N	fultiply by:	_
	0	= Total Cover		OBL species	15	x 1 =	15	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
1				FAC species	0	x 3 =	0	
2.				FACU species	90	x 4 =	360	
				UPL species	10	x 5 =	50	
3				Column Totals:	115	(A)	425	(B)
4				D 1	o lode: D/A	2.60		
5				Prevalenc	e Index = B/A =	3.69		
6				Hydrophytic Ve	_			
7					est for Hydrophy		etation	
	0	= Total Cover			nce Test is >50% nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)		- 10101 00101			ogical Adaptatio		vide supportin	g
Lolium perenne	60	Yes	FACU	data in	Remarks or on a	separa	te sheet)	
2. Trifolium repens	30		FACU	Problematic	c Hydrophytic Ve	egetation	n ¹ (Explain)	
3. Fragaria vesca	10	No	UPL	¹ Indicators of hy				
				be present, unle		-		
4. Juncus pylaei	15	No	OBL	-	-			
5				Definitions of V	egetation Strat	a:		
6				Tree – Woody p	•	•		
7				at breast height	(DBH), regardles	ss of hei	ght.	
8				Sapling/shrub -				
9				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
10.				Herb – All herba				of
11.				size, and woody	plants less than	3.28 ft t	all.	
				Woody vines – height.	All woody vines	greater t	han 3.28 ft in	
12		T 0		neight.				
	115	= Total Cover						
Voody Vine Stratum (Plot size: 30 ft.)								
l				Herden a bestia				
2.				Hydrophytic Vegetation				
3				Present?	Yes _	ı	No x	
4.								
	0	= Total Cove						
		= 10ta10000		l .				

SOIL Sampling Point: DP-091 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 10YR 4/3 70 7.5YR 4/4 MS Silt Loam 0-20 10YR 4/2 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley Sc	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-092	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	Ripley	•		
Landform (hillslope,		Hillslope			f (concave, con		Concave		Slope (%):	2
	·	Гішэюре			•	,				
Subregion (LRR or I				Lat: 42.201877°	°N	Long: 79.72642			Datum: NA	ADOS
Soil Map Unit Name	e: ErB - Erie ch	hannery silt loam; 3	to 8 percent s	slopes			NWI classifi	cation: Not Mapp	ed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of y	ear? Yes	X No	lo (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	i? A	Are "Normal Circu	ımstances" pr	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	nat	:urally problematic?	? (1	lf needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No)	Is the Sample	ed Area	_		_	_
Hydric Soil Prese		Yes	x No	,	within a Wetl	land?	Yes	x No		l
Wetland Hydrolog	gy Present?	Yes	x No	,	If yes, optiona	al Wetland Site ID	D: 023			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary Ir	ndicators (minimum	of two require	od)
_		- is required; abook	II that annly	Δ				·	Of two require	3 0)
	•	e is required; check					-	il Cracks (B6)		
Surface Water 1			_	r-Stained Leaves (E tic Fauna (B13)	59)	<u>X</u>	_	atterns (B10) Lines (B16)		
Saturation (A				Deposits (B15)		_	_	n Water Table (C2)		
Water Marks	•			ogen Sulfide Odor ((C1)		Crayfish Bu			
Sediment De				zed Rhizospheres		s (C3)	_	Visible on Aerial Im	nagery (C9)	
Drift Deposits				ence of Reduced Iro	_		_	Stressed Plants (D		
Algal Mat or				nt Iron Reduction in		26) <u>x</u>	_	c Position (D2)	,	
Iron Deposits	s (B5)		Thin N	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other	r (Explain in Remar	rks)	X		raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				<u> </u>	FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre	esent?	Yes No _		.h (inches):						
Water Table Pres	ent?	Yes No _		th (inches):		Wetland Hyd	drology Prese	ent? Yes x	K No	
Saturation Presen		Yes No _	x Dept	h (inches):						
(includes capillary		gauge, monitoring we	sorial pho	t-a provious inspe	+i) if avail	-bla.				
Describe Recorde	10 Data (Stream y	auge, monitoring we	ell, aenai prio	tos, previous irispe	Ctions), 11 avan	able:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
Acer rubrum	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3	(A)
2.				That Are OBL, I ACW, OT AC.	.^)
3.				Total Number of Dominant Species Across All Strata: 3	(B)
4				Percent of Dominant Species	
5				·	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species <u>70</u> x 1 = <u>70</u>	_
Sapling/Shrub Stratum (Plot size: 15 ft.)	<u>_</u>			FACW species <u>0</u> x 2 = <u>0</u>	_
1				FAC species <u>50</u> x 3 = <u>150</u>	-
2				FACU species 15 x 4 = 60	-
3				UPL species 0 x 5 = 0	- (D)
4.				Column Totals: <u>135</u> (A) <u>280</u>	(D)
5.				Prevalence Index = B/A = 2.07	
6.				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
Carex lurida	— 40	Yes	OBL	data in Remarks or on a separate sheet)	
2. Juncus pylaei	30	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
Solidago rugosa	20	No	FAC	¹ Indicators of hydric soil and wetland hydrology must	
Potentilla simplex	15	No	FACU	be present, unless disturbed or problematic.	
5.				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7.				at breast height (DBH), regardless of height.	
8.				Sapling/shrub – Woody plants less than 3 in. DBH	
9.				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
12.				Woody vines – All woody vines greater than 3.28 ft in height.	
	105	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)		-			
1					
2.	_			Hydrophytic	
3	_			Vegetation Present? Yes No	
4.					
	0	= Total Cove			
Remarks: (Include photo numbers here or on a separate shee				•	
, , , , , , , , , , , , , , , , , , , ,	,				

SOIL Sampling Point: DP-092 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 60 7.5YR 4/4 MS Silty Clay Loam 0-20 10YR 4/6 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: No hydric Soils found

Project/Site:	South Ripley So	lar and Storage Project		City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-093	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Riplev	-		
Landform (hillslope,		Hillslope			f (concave, con		Convex	,	Slope (%):	1
					•				Datum: N	VD83
Subregion (LRR or	-	LRR R		Lat: 42.201602	.°N	Long: 79.72770				AD03
Soil Map Unit Name		nannery silt loam; 3 to 8					_ NWI classifi		ed	
•	_	n the site typical for this	-			lo (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	I? A	Are "Normal Circu	ımstances" pr	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic?	? (1	lf needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area	_		_	_
Hydric Soil Prese		Yes	No	х	within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID	D :			
HYDROLOGY										
	· · · · · · · · · · · · · · · · · · ·						Oandony In	"ta (minimum	f to a requir	-1/
Wetland Hydrolo		المرام علم ما المرام المرام المرام المرام المرام المرام المرام المرام المرام المرام المرام المرام المرام المرام	:h.d					il Cracks (D6)	of two require	ea)
	•	e is required; check all th		Ct :===!! aayaa //	DO)			il Cracks (B6)		
Surface Wat		_	_	Stained Leaves (F	89)		_	atterns (B10)		
High Water Saturation (A		_	_	Fauna (B13) eposits (B15)			_	Lines (B16) n Water Table (C2)	ı	
Water Marks	•	_		eposits (B15) jen Sulfide Odor ((C1)	_	Crayfish Bu			
Sediment De				ed Rhizospheres			_	Visible on Aerial Im	nagery (C9)	
Drift Deposit		_		ce of Reduced Iro	=		_	Stressed Plants (D		
Algal Mat or		_		Iron Reduction in	-	26)	_	c Position (D2)	,	
Iron Deposits	s (B5)	_	Thin Mu	uck Surface (C7)	!	_	Shallow Aq	uitard (D3)		
Inundation V	/isible on Aerial Im	nagery (B7)	Other (Explain in Remar	rks)	_	Microtopog	raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				_	FAC-Neutra	al Test (D5)		
Field Observation	ons:									
Surface Water Pro	esent?	Yes Nox		(inches):						
Water Table Pres	ent?	Yes Nox		(inches):		Wetland Hyd	drology Prese	ent? Yes	No _	Х
Saturation Preser		Yes Nox	Depth	(inches):						
(includes capillary		auge, monitoring well, a	arial photo	a provious inene	antional if avail	ahla:				
Describe Necorde	30 Dala (Siream yo	auge, monitoring wen, a	eriai prioto	is, previous irispe	3C110115), 11 avam	able.				
Remarks:		-								
No wetland hydrolo	gy observed									
1										

							Point: DP-093	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer saccharum	100	Yes	FACU	Number of Domi That Are OBL, F.			0	(A)
				That Are OBL, 1	AOW, OITAO.			_(^)
2.				Total Number of Species Across			3	(B)
3.				Species Across	All Strata.		<u> </u>	_(D)
. 				Percent of Domin			0	(A/B
j				That Are OBL, 1	ACW, OIT AC.		0	_(A/D
5.				Prevalence Inde	ex worksheet:			
·				Total % Co	ver of:	N	lultiply by:	_
	100	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
. Acer saccharum	15	Yes	FACU	FAC species	0	x 3 =	0	_
_				FACU species	125	x 4 =	500	_
				UPL species	0	x 5 =	0	_
•				Column Totals:	125	(A)	500	_ (B)
•				Drevalone	e Index = B/A =	4		
i				Hydrophytic Ve	_		4-4:	
·					est for Hydrophy nce Test is >50%		tation	
	15	= Total Cover			nce Index is ≤3.0			
rb Stratum (Plot size: 5 ft.)				4 - Morphol	ogical Adaptatio	ns ¹ (Pro	vide supportin	g
Acer saccharum	10	Yes	FACU	data in I	Remarks or on a	separat	e sheet)	
				Problematic	: Hydrophytic Ve	egetation	¹ (Explain)	
				¹ Indicators of hy				
•				be present, unles				
k				-	-			
i				Definitions of V	egetation Strat	a:		
i				Tree – Woody pl	•	•		
, <u> </u>				at breast height	(DBH), regardles	ss of hei	ght.	
3.				Sapling/shrub -				
).				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
0.				Herb – All herba				of
1.				size, and woody	plants less than	3.28 ft t	all.	
2.				Woody vines – height.	All woody vines	greater t	han 3.28 ft in	
		Tatal Cause		noight.				
	10	= Total Cover						
pody Vine Stratum (Plot size: 30 ft.)								
·				Hydrophydia				
				Hydrophytic Vegetation				
·				Present?	Yes _		lo <u>x</u>	
l.								
	0	= Total Cove	r					
	- U		•					

SOIL Sampling Point: DP-093 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 5/4 90 7.5 5/6 10 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-094	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Terrace			f (concave, con		Convex		Slope (%):	1
, ,	,				·				Datum: NA	V D83
Subregion (LRR or	-	LRR R		Lat: 42.200516	<u>°N</u>	Long: 79.72768				1000
Soil Map Unit Name	e: ErB - Erie ch	annery silt loam; 3 to 8	percent slo	opes			NWI classific		ped	
Are climatic / hydrol	ogic conditions on	the site typical for this	time of yea	ar? Yes	X No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	l? A	re "Normal Circu	ımstances" pro	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach site	e map s	showing sam	pling point	locations, to	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	×	Is the Sample	ed Area				
Hydric Soil Prese		Yes	— No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No	X	If yes, optiona	al Wetland Site ID):			
		dures here or in a separa area between two se			ested area					
HYDROLOGY										
Wetland Hydrolo	nov Indicators:						Secondary In	dicators (minimum	of two require	ed)
_		e is required; check all the	ect apply)			_	-	il Cracks (B6)	Or two require	<i>5u)</i>
Surface Wat		15 required, check an a		Stained Leaves (E	RQ)			atterns (B10)		
High Water		_	_	c Fauna (B13)	59)	_	_	Lines (B16)		
Saturation (A		_	_	eposits (B15)		_	_	n Water Table (C2)		
Water Marks	•	_	_	gen Sulfide Odor ((C1)		Crayfish Bu			
Sediment De		_	_	ed Rhizospheres		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit		_	_	ce of Reduced Iro	_	(00)	-	Stressed Plants (D		
Algal Mat or	• •	_	_	Iron Reduction in	` '	.6)	_	c Position (D2)	.,	
Iron Deposits	* *	_	_	uck Surface (C7)	•		Shallow Aq			
	isible on Aerial Im	nagery (B7)	_	Explain in Remar			•	raphic Relief (D4)		
	getated Concave S	_	_ ` `		,	_	FAC-Neutra			
Field Observatio					I					
Surface Water Pre	esent?	Yes No	Depth	(inches):						
Water Table Pres	ent?	Yes No	Depth	(inches):		Wetland Hyd	Irology Prese	ent? Yes	No_	x
Saturation Preser	nt?	Yes No	Depth	(inches):				-		
(includes capillary	r fringe)									
Describe Recorde	ed Data (stream ga	auge, monitoring well, a	erial photo	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	gy observed									

						·
Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
,				Number of Domi		2 (4)
1				That Are OBL, F	ACW, or FAC:	(A)
2				Total Number of		o (D)
3				Species Across	All Strata:	(B)
4				Percent of Domi		0 (4.70
5				That Are OBL, F	ACW, or FAC:	0(A/B
6				Prevalence Inde	ex worksheet:	
7				Total % Co		Multiply by:
	0	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 = 0
1				FAC species	0	x 3 = 0
2				FACU species	110	x 4 = 440
•				UPL species	0	
3. 				Column Totals:	110	(A) <u>440</u> (B)
4				Prevalenc	e Index = B/A =	Д
5						
6				Hydrophytic Ve	_	
7					est for Hydrophy nce Test is >50%	
	0	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide supporting
Lolium perenne	60	Yes	FACU	data in	Remarks or on a	a separate sheet)
2. Acmispon americanus	20	No	FACU	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
3. Plantago lanceolata	30	Yes	FACU	¹ Indicators of hy	dric soil and wet	tland hydrology must
4. Trifolium repens	20	No	FACU	be present, unle	ss disturbed or p	problematic.
_		140	17100	Definitions of V	egetation Strat	a·
5					_	m) or more in diameter
6				at breast height	,	•
7						-
0				and greater than		ess than 3 in. DBH 3 ft (1 m) tall.
9					•	
10				size, and woody		ody) plants, regardless of 3.28 ft tall.
11						greater than 3.28 ft in
12				height.	All woody vines	greater than 5.20 it in
	130	= Total Cover				
Voody Vine Stratum (Plot size: 30 ft.)		•				
				Hydrophytic		
2				Vegetation		
3				Present?	Yes _	Nox
4.		-				
T	0	= Total Cove	-			

SOIL Sampling Point: DP-094 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 90 10YR 5/8 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage Project	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-095	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of Rip	olev			
Landform (hillslope,		Hillslope			ef (concave, con		onvex		Slope (%):	2
	•	•			•				Datum: N	
Subregion (LRR or I		LRR R		Lat: 42.198814	ł°N i	Long: 79.728113°\				4005
Soil Map Unit Name		nannery silt loam; 3 to					NWI classifica		oed	
-	=	n the site typical for thi				o (If no, e	explain in Re	marks.)		
Are Vegetation	, Soil	, or Hydrology	signif	ficantly disturbed	d? A	are "Normal Circums	stances" pres	sent? Yes	<u>x</u> No	,
Are Vegetation	, Soil	, or Hydrology	natur	rally problematic	? (I	f needed, explain ar	ny answers i	n Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	ite map s	howing san	npling point	locations, trai	nsects, ir	nportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	х	Is the Sample	ed Area				
Hydric Soil Presei		Yes	No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No	1	If yes, optiona	al Wetland Site ID:		_		
		dures here or in a sepa	•		<u> </u>					
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					Se	econdary Ind	icators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all	that apply)			5	Surface Soil	Cracks (B6)		
Surface Wate	er (A1)		Water-S	Stained Leaves ((B9)	[Drainage Pat	iterns (B10)		
High Water 1	Γable (A2)		Aquatic	Fauna (B13)		^	Moss Trim Li	nes (B16)		
Saturation (A	•			eposits (B15)			-	Water Table (C2)	1	
Water Marks				en Sulfide Odor			Crayfish Burr			
Sediment De		,		ed Rhizospheres	=			sible on Aerial Im		
Drift Deposits				ce of Reduced In	, ,			tressed Plants (D	1)	
Algal Mat or	• •			Iron Reduction in	•	· —		Position (D2)		
Iron Deposits	is (B5) /isible on Aerial Im			uck Surface (C7) Explain in Remar			Shallow Aqui Microtopogra	nard (D3) uphic Relief (D4)		
	egetated Concave S	• , , ,	Onlei (L	Explain in Nemai	iks)		FAC-Neutral			
		Juliace (Do)				<u>_</u> :	AO-140ana.	1631 (120)		
Field Observatio Surface Water Pre		Yes No	¥ Depth	(inches);						
Water Table Pres		Yes No				Wetland Hydrol	loav Presen	it? Yes	No _	x
Saturation Presen		Yes No				•				
(includes capillary			<u> </u>							
		auge, monitoring well,	, aerial photo	s, previous insp	ections), if availa	able:				
Domarko										
Remarks: No wetland hydrolo	ogy observed									

Absolute % Cover 90 15	Dominant Species? Yes No Total Cover	FACU FACU	Dominance Test Number of Domin That Are OBL, For Total Number of Species Across A Percent of Domin That Are OBL, For Prevalence Inde Total % Coo OBL species FACW species	nant Species ACW, or FAC: Dominant All Strata: nant Species ACW, or FAC: ex worksheet: ver of: 0	x 1 =	0 2 0 ultiply by:	_(A) _(B) _(A/B
15	No		That Are OBL, FA Total Number of Species Across A Percent of Domir That Are OBL, FA Prevalence Inde Total % Cox OBL species	Dominant All Strata: nant Species ACW, or FAC: ex worksheet: ver of: 0	x 1 =	2 0 ultiply by:	_(B) _(A/B
15	No		Total Number of Species Across A Percent of Domir That Are OBL, FA Prevalence Inde Total % Cox OBL species	Dominant All Strata: nant Species ACW, or FAC: ex worksheet: ver of: 0	x 1 =	2 0 ultiply by:	_(B) _(A/B
			Percent of Domir That Are OBL, For Prevalence Inde Total % Cov OBL species	All Strata: nant Species ACW, or FAC: ex worksheet: ver of:	x 1 =	0 ultiply by:	(A/B
	= Total Cover		Percent of Domir That Are OBL, For Prevalence Inde Total % Cov OBL species	nant Species ACW, or FAC: ex worksheet: ver of:	x 1 =	0 ultiply by:	(A/B
105	= Total Cover		Prevalence Inde Total % Cov OBL species	ex worksheet: ver of:	x 1 =	ultiply by:	
105	= Total Cover		Prevalence Inde Total % Cov OBL species	ex worksheet: ver of:	x 1 =	ultiply by:	
105	= Total Cover		OBL species	ver of:	x 1 =		_
105	= Total Cover		OBL species	0	x 1 =		_
105	= Total Cover					0	
			FACW species	0			_
				<u> </u>		0	
			FAC species	0		0	
			FACU species	110			
			UPL species	0		0	_
			Column Totals:	110	(A)	440	_ (B)
			Prevalence	e Index = B/A = 4	4		
							—
			Hydrophytic Ve	_		tation	
						lalion	
0	= Total Cover						
							g
5	Yes	FACU	data in F	Remarks or on a	separat	e sheet)	
			Problematic	: Hydrophytic Ve	getation	¹ (Explain)	
			5 0 111 614				
				_			
			1	•	•		
			at breast neight (DBH), regardles	s or neig	jnt.	
			1				
			and greater than	or equal to 3.28	π (1 m)	tall.	
							of
				All woody vines o	greater th	nan 3.28 ft in	
-	- Total Cover						
<u> </u>	_ Total Cover						
			Hydronhytic				
			Vegetation				
			Present?	Yes _	N	lo <u>x</u>	
0	= Total Cove	r					
Ū	10101 0010	•					
	5	5 Yes	5 = Total Cover	2 - Dominar 3 - Prevaler 4 - Morphol data in F Problematic 1 Indicators of hyd be present, unless Definitions of V Tree – Woody pl at breast height (Sapling/shrub – and greater than Herb – All herba size, and woody Woody vines – A height. 5 = Total Cover Hydrophytic Vegetation Present?	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptatio data in Remarks or on a Problematic Hydrophytic Ve Indicators of hydric soil and wet be present, unless disturbed or p Definitions of Vegetation Strate Tree – Woody plants 3 in. (7.6 cr at breast height (DBH), regardles Sapling/shrub – Woody plants leand greater than or equal to 3.28 Herb – All herbaceous (non-woo size, and woody plants less than Woody vines – All woody vines of height. 5 = Total Cover Hydrophytic Vegetation Present? Yes	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separated ata i	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. 5 = Total Cover Hydrophytic Vegetation Present? Yes Nox

SOIL Sampling Point: DP-095 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 5/4 95 10YR 3/4 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State	e: NY	Sampling Point:	DP-096	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	Ripley	•		
Landform (hillslope,		Drainageway			f (concave, con		Concave		Slope (%):	1
	•	Drainageway			,	,		·		1 Doo
Subregion (LRR or	-	LRR R		Lat: 42.198168	°N i	Long: 79.72705			Datum: NA	4D02
Soil Map Unit Name	ErB - Erie ch	nannery silt loam; 3	to 8 percent s	lopes			_ NWI classifi	cation: Not Mapp	ed	
Are climatic / hydrol	ogic conditions or	n the site typical for	this time of ye	ear? Yes	<u>x</u> No	o (If n	no, explain in F	temarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	nificantly disturbed	i? A	Are "Normal Circu	umstances" pr	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	nati	urally problematic?	? (I	lf needed, explai	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	X No	-	within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site II	D: 023			
HYDROLOGY										
Wetland Hydrolo	nav Indicators:						Secondary Ir	ndicators (minimum	of two require	ed)
_		e is required; check	all that anniv'	١		_	-	il Cracks (B6)	Of two require	5u)
Surface Wat		7 15 Tequirou, orioci.		r-Stained Leaves (E	Rg)			atterns (B10)		
High Water			_	ic Fauna (B13)	59,	_^	_	Lines (B16)		
Saturation (A				Deposits (B15)		_	_	n Water Table (C2)		
Water Marks	•			ogen Sulfide Odor ((C1)	_		urrows (C8)		
Sediment De				zed Rhizospheres		(C3)	_	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)		Prese	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recer	nt Iron Reduction ir	n Tilled Soils (C	26) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	_ Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other	(Explain in Remar	ks)	_X	_	raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observatio										
Surface Water Pro		Yes No _					_			
Water Table Pres		Yes No _		h (inches):		Wetland Hyd	drology Prese	ent? Yes x	K No	
Saturation Preser (includes capillary		Yes No	x Depti	h (inches):						
<u> </u>	<u> </u>	auge, monitoring we	ell. aerial pho	tos, previous inspe	ections), if availa	able:				
	, a 2 a.a. (c	aug-, 5	on,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Remarks:										

Free Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
·	<u> </u>			Number of Dominant Species	4 (4)
1				That Are OBL, FACW, or FAC	: <u>1</u> (A)
2				Total Number of Dominant	4 (5)
3.				Species Across All Strata:	1(B)
4				Percent of Dominant Species	400 (4.70)
5				That Are OBL, FACW, or FAC	: 100 (A/B)
6.				Prevalence Index worksheet	
7				Total % Cover of:	Multiply by:
	0	= Total Cover		OBL species 120	x 1 = 120
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1				FAC species 0	x 3 = 0
2.				FACU species 0	x 4 = 0
•				UPL species 0	_
3. 				Column Totals: 120	(A) <u>120</u> (B)
4				Prevalence Index = B/A	= 1
5					
6				Hydrophytic Vegetation Indi	
7				X 1 - Rapid Test for Hydrop X 2 - Dominance Test is >5	
	0	= Total Cover		X 3 - Prevalence Index is ≤	
erb Stratum (Plot size: 5 ft.)	_				tions ¹ (Provide supporting
1. Carex lurida	60	Yes	OBL	data in Remarks or or	n a separate sheet)
2. Juncus pylaei	20	No	OBL	Problematic Hydrophytic	Vegetation ¹ (Explain)
3. Scirpus atrovirens	20	No	OBL	¹ Indicators of hydric soil and w	etland hydrology must
4. Carex vulpinoidea	20	No	OBL	be present, unless disturbed o	r problematic.
5.				Definitions of Vegetation Str	ata:
				Tree – Woody plants 3 in. (7.6	
6.				at breast height (DBH), regard	*
7. 				Sapling/shrub – Woody plant	s loss than 2 in DRH
o				and greater than or equal to 3.	
9.				Herb – All herbaceous (non-w	oody) plants, regardless of
10				size, and woody plants less the	
11				Woody vines – All woody vine	s greater than 3.28 ft in
12				height.	ground man dizon min
	120	= Total Cover			
/oody Vine Stratum (Plot size: 30 ft.)					
	_				
I	<u> </u>			Hydrophytic	
1	_ 			Vegetation	V. N.
1	_ _ 			1 ' ' '	_x No
Voody Vine Stratum (Plot size: 30 ft.) 1 2 3 4	_ 		<u> </u>	Vegetation	x No

SOIL Sampling Point: DP-096 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 70 7.5YR 4/4 MS Silty Clay Loam 0-20 10YR 4/3 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: No hydric soils present

Project/Site:	South Ripley So	olar and Storage Projec	xt	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 18, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP- 100	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			ef (concave, con		Convex		Slope (%):	4
, ,	,				,	,			• • • •	
Subregion (LRR or	-	LRR R		Lat: 42.199043	3°N	Long: 79.73158			Datum: N	4D63
Soil Map Unit Name	e: BsB - Busti s	silt loam; 3 to 8 percent	slopes				NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for this	s time of ye	ear? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	ή? Δ	Are "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic	? (I	If needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	ite map :	showing sam	npling point	locations, to	ransects, i	mportant feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Δrea				
Hydric Soil Prese		Yes	— No		within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes		x	If yes, optiona	al Wetland Site ID):			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:		_	_	_		Secondary In	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all	that apply)	1			_ Surface Soi	il Cracks (B6)		
Surface Wat	ier (A1)	-	Water-	-Stained Leaves (I	(B9)	_	_ Drainage Pa	atterns (B10)		
High Water	Table (A2)	-	Aquati	ic Fauna (B13)		_	Moss Trim I	Lines (B16)		
Saturation (A	•	-		Deposits (B15)		_	-	Water Table (C2)	i	
Water Marks		-		gen Sulfide Odor (_	Crayfish Bu			
Sediment De		-		ed Rhizospheres	=	(C3)	_	Visible on Aerial Im		
Drift Deposit	, ,	-		nce of Reduced Ir			_	Stressed Plants (D	1)	
Algal Mat or	* *	_		nt Iron Reduction in	-	.6)	_	c Position (D2)		
Iron Deposits		(D7)		Muck Surface (C7)		_	Shallow Aqu			
	/isible on Aerial Im	_	Otner ((Explain in Remar	rks)	_		raphic Relief (D4)		
	egetated Concave	Surrace (B8)				_	FAC-Neutra	I lest (D5)		
Field Observatio		V No	Donth	/ (İ				
Surface Water Pro		Yes No x			Ī	Matland Usa	lant Brook		No	
Water Table Pres		Yes No x		h (inches):		Wetland Hyd	rology riese	ent? Yes	No	<u> </u>
Saturation Preser (includes capillary		Yes No	к Бериі	ı (ıncnes):		i				
<u> </u>	<u> </u>	gauge, monitoring well,	aerial phot	tos, previous insp	ections), if availa	able:				
			-	•	•					
Remarks:	1									
No wetland hydrolo	ogy observeu									

Free Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
Acer saccharum	100	Yes	FACU	Number of Domi That Are OBL, F.		1 (A)		
				That Aire OBE, 1	7.077, 01 1 7.0.			
2				Total Number of Species Across		3 (B)		
3				Species Across	All Strata.	(B)		
4				Percent of Domin		33.3 (A/B		
5				That Are OBL, 1	AOW, OITAO.	(A/D		
6				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	Multiply by:		
	100	= Total Cover		OBL species	0	x 1 = 0		
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	5	x 2 = 10		
1				FAC species	20	x 3 = <u>60</u>		
2.				FACU species	120	x 4 = 480		
3.				UPL species	0	x 5 = 0		
				Column Totals:	145	(A) <u>550</u> (B		
4			-	Prevalenc	e Index = B/A =	3.79		
5								
6.				Hydrophytic Ve	_			
7				l ——	est for Hydrophy nce Test is >50%			
	0	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting		
Persicaria virginiana	20	Yes	FAC	data in l	Remarks or on a	a separate sheet)		
2. Rubus idaeus	20	Yes	FACU	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)		
3. Fraxinus pennsylvanica	5	No	FACW	¹ Indicators of hy	dric soil and wet	land hydrology must		
4				be present, unles	ss disturbed or p	problematic.		
4 5				Definitions of V	egetation Strat	a·		
5					_	m) or more in diameter		
6				at breast height	•	,		
ſ						_		
8				and greater than		ess than 3 in. DBH		
9					•			
10				size, and woody		dy) plants, regardless of		
11					•			
12				height.	All woody vines	greater than 3.28 ft in		
	45	= Total Cover						
/oody Vine Stratum (Plot size: 30 ft.)		1						
1								
				Hydrophytic				
2				Vegetation				
3				Present?	Yes _	Nox		
4.								
'	0	= Total Cove	r					

SOIL Sampling Point: DP- 100 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/4 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils present

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Count	ity: Chauta	auqua County		Sampling Date:	Aug 19, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-101	
Investigator(s):	James Ireland			Section, To	ownship, Range	: Town of F	Ripley	•		
Landform (hillslope,		Floodplain			f (concave, conv		Concave		Slope (%):	1
	·								· · · · -	V D63
Subregion (LRR or		LRR R		Lat: 42.198509°	'N L	Long: 79.73006			Datum: NA	ADOS
Soil Map Unit Name	e: CkC - Chatfie	ield-Rock outcrop co	omplex; rolling				NWI classifi	cation: R5UBH		
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	ar? Yes	<u>x</u> No	O (If no	o, explain in R	temarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed?	? A	re "Normal Circu	mstances" pr	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations, tr	ransects,	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No		l
Wetland Hydrolog		Yes	x No		If yes, optiona	I Wetland Site ID	D: 023			
HYDROLOGY										
Wetland Hydrolo							Secondary Ir	ndicators (minimum	of two require	od)
_		a in required; check	all that apply)			_	-	· · · · · · · · · · · · · · · · · · ·	OI two require	3 (1)
Surface Wat	•	e is required; check		-Stained Leaves (B			-	il Cracks (B6) atterns (B10)		
High Water			_	c Fauna (B13)	<i>39)</i>	<u>X</u>	_	Lines (B16)		
Saturation (A				eposits (B15)			_	n Water Table (C2)	1	
Water Marks	•		_	gen Sulfide Odor (0	C1)		Crayfish Bu		,	
Sediment De				ed Rhizospheres o		(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit				nce of Reduced Iro	_	(65)	-	Stressed Plants (D		
Algal Mat or				t Iron Reduction in	, ,	6) x	<u> </u>	c Position (D2)	•,	
Iron Deposits	* *		_	luck Surface (C7)			Shallow Aq			
Inundation V	Visible on Aerial Im	nagery (B7)	Other ((Explain in Remark	ks)	Х	Microtopog	raphic Relief (D4)		
Sparsely Ve	egetated Concave	Surface (B8)				Х	FAC-Neutra	al Test (D5)		
Field Observatio	ons:									
Surface Water Pre	esent?	Yes No _	x Depth	(inches):						
Water Table Pres	sent?	Yes No _		n (inches):		Wetland Hyd	rology Prese	ent? Yes <u> </u>	x No	
Saturation Presen		Yes No _	x Depth	(inches):						
(includes capillary	· · ·	· · · · · · · · · · · · · · · · · · ·	"							
Describe Recorde	ed Data (stream ga	gauge, monitoring we	ell, aeriai pnoto	os, previous inspe	ctions), if availa	able:				
Remarks:	-	-								

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer saccharum	15	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)	
2.				matale obl., i acw, of i ac.	
3.				Total Number of Dominant Species Across All Strata: 6 (B)	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6 (A/E	3)
6.					
7				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 20 x 1 = 20	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 135 x 2 = 270	
Hamamelis virginiana	30	Yes	FACU	FAC species 0 x 3 = 0	
Lindera benzoin	40	Yes	FACW	FACU species <u>55</u> x 4 = <u>220</u>	
3.				UPL species $0 x 5 = 0$	
4				Column Totals: <u>210</u> (A) <u>510</u> (B)
5				Prevalence Index = B/A = 2.42	
6.				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	70	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting	
Eutrochium maculatum	35	Yes	OBL	data in Remarks or on a separate sheet)	
Eupatorium perfoliatum			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
	35	Yes	FACW	Troblematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must	
Impatiens capensis A Corpulatida	60			be present, unless disturbed or problematic.	
Carex lurida Rubus idaeus	10		OBL FACU	Definitions of Vegetation Strata:	
	10	INO	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
6				at breast height (DBH), regardless of height.	
7				Sapling/shrub – Woody plants less than 3 in. DBH	
0				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
10.				size, and woody plants less than 3.28 ft tall.	
11.				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
W	160	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes X No	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					_

Sampling Point: DP-101

SOIL Sampling Point: DP-101 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-10 10YR 3/2 70 7.5YR 4/6 MS Silty Clay Loam 30 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Hydric Soil Present? Yes Depth (inches): 10 No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 19, 20)20
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>		<u> </u>		State:	: NY	Sampling Point:	DP-102	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Depression			f (concave, conv		Concave	•	Slope (%):	3
, ,	,				•	·				
Subregion (LRR or		LRR R		Lat: 42.199348°	°N ı	Long: 79.73042			Datum: NA	AD03
Soil Map Unit Name	e: CkC - Chatfie	eld-Rock outcrop co	mplex; rolling	<u> </u>			NWI classific		oed	
Are climatic / hydro	logic conditions or	n the site typical for	this time of ye	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circu	ımstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natı	rally problematic?	? (If	f needed, explair	າ any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	X No		
Wetland Hydrolog		Yes _	x No	-	If yes, optiona	al Wetland Site ID	D: 023			
HYDROLOGY										
Wetland Hydrolo						_	-	dicators (minimum	of two require	∍d)
	•	e is required; check						il Cracks (B6)		
Surface Wat				-Stained Leaves (E	39)	X	_	atterns (B10)		
High Water				ic Fauna (B13)		_		Lines (B16)		
Saturation (A	•			Deposits (B15)		_	_	Water Table (C2)	!	
Water Marks				gen Sulfide Odor (0			_ Crayfish Bu		(20)	
Sediment De	. , ,			ed Rhizospheres o	_	(C3)	_	Visible on Aerial Im		
Drift Deposit	. ,			nce of Reduced Iro				Stressed Plants (D	1)	
Algal Mat or	* *			nt Iron Reduction in	· ·	(6) <u>x</u>	_	c Position (D2)		
Iron Deposit		n/(P7)		Muck Surface (C7)			Shallow Aq	,		
	Visible on Aerial Im egetated Concave \$	• • • •	Other	(Explain in Remark	KS)	<u> </u>	_	raphic Relief (D4)		
		Surface (Do)				<u>X</u>	FAC-Neutra	I Test (D5)		
Field Observation		Vaa No	v Dontl	t (inches):						
Surface Water Pr		Yes No No				Motland Hyd	Inalagy Broce		·· No	
Water Table Pres		Yes No No		h (inches):		Wetianu nyu	drology Prese	ent? Yes x	<u>x</u> No _	
Saturation Preser (includes capillary		Yes No _	х рерп	i (inches):						
	· · ·	auge, monitoring we	ell. aerial phot	os. previous inspe	ections), if availa	able:				
		g-,								
Remarks:										
1										
1										

						ampling Point: DP-102
Γree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:	
		Ороског.	<u> </u>	Number of Domi		
1				That Are OBL, F	ACW, or FAC:	2 (A)
2				Total Number of		
3				Species Across	All Strata:	(B)
4				Percent of Domin		400 44.5
5				That Are OBL, F	ACW, or FAC:	(A/B)
6				Prevalence Inde	av workshoot:	
7				Total % Co		Multiply by:
	0	= Total Cover		OBL species	40	x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	50	x 2 = 100
1.				FAC species	50	x 3 = 150
2.				FACU species	0	x 4 = 0
				UPL species	0	x 5 = 0
3				Column Totals:	140	(A) <u>290</u> (B)
4		-		Describ	o Index D/A	2.07
5				Prevalenc	e Index = B/A =	2.07
6				Hydrophytic Ve	_	
7				X 2 - Domina	est for Hydrophy	
	0	= Total Cover		X 3 - Prevaler		
lerb Stratum (Plot size: 5 ft.)						ns ¹ (Provide supporting
Eupatorium perfoliatum	30	Yes	FACW	data in I	Remarks or on a	separate sheet)
Solidago rugosa	50	Yes	FAC	Problemation	c Hydrophytic Ve	egetation ¹ (Explain)
3. Juncus pylaei	20	No	OBL	1.		land hydrology must
				be present, unles		·
4. Carex vulpinoidea		No No	OBL	Definitions of V		
Symphyotrichum lanceolatum	20	No	FACW	Definitions of V	_	
6				at breast height	·	m) or more in diameter
7						_
8				Sapling/shrub - and greater than		ess than 3 in. DBH
9					•	
10				Herb – All herba size, and woody		dy) plants, regardless of
11					•	
12				height.	All woody vines	greater than 3.28 ft in
•	140	= Total Cover				
Voody Vine Stratum (Plot size: 30 ft.)						
1				Hydrophytic		
2				Vegetation		
3				Present?	Yes _	No
4						
	0	= Total Cove	r			
T	0	= Total Cove	r			

SOIL Sampling Point: DP-102 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 80 7.5YR 4/4 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Proj	ject	City/Count	ty: Chauta	auqua County		Sampling Date:	Aug 19, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC		<u> </u>		State:	NY	Sampling Point:	DP-103	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of R	Ripley			
Landform (hillslope,		Depression			(concave, conv		Concave		Slope (%):	1
										V D63
Subregion (LRR or I		LRR R		Lat: 42.202417°	<u>'N 1</u>	Long: 79.72983			Datum: NA	4D02
Soil Map Unit Name	BsA - Busti si	silt loam; 0 to 3 perce	ent slopes				NWI classific	cation: Not Mapp	ed	
Are climatic / hydrol	ogic conditions on	n the site typical for t	this time of ye	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	Are "Normal Circur	mstances" pre	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	<u>х</u> No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	024			
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary In	dicators (minimum	of two require	od)
		s in required; check	all that apply)					· · · · · · · · · · · · · · · · · · ·	Or two require	3 4)
Surface Water	-	e is required; check a		-Stained Leaves (B	20)		•	il Cracks (B6) atterns (B10)		
High Water T			_	c Fauna (B13)) 3)	_	Moss Trim I			
Saturation (A				eposits (B15)			•	Water Table (C2)	i	
Water Marks	•			gen Sulfide Odor (0	C1)	_	Crayfish Bu			
Sediment De	-			ed Rhizospheres o	•	(C3)	•	√isible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C	(6) <u>x</u>	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)		Thin M	fluck Surface (C7)			Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other ((Explain in Remark	ks)	X		raphic Relief (D4)		
Sparsely Vec	getated Concave S	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observation	ns:									
Surface Water Pre		Yes No _								
Water Table Prese		Yes No _		n (inches):		Wetland Hydi	rology Prese	ent? Yes x	K No	
Saturation Presen		Yes No _	x Depth	ı (inches):						
(includes capillary	<u> </u>	auge, monitoring we	aerial nhote	os previous inspe	octions) if avails	ahla:				
Describe Records	d Data (Stream go	luge, monitoring wo	II, acııaı pırox	JS, previous mopo.	Cliurioj, ii avanc	abic.				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer rubrum	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A	,
2				That Are OBL, I ACW, OT AC.	,
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A.	/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 10 x 1 = 10	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 80 x 2 = 160	
1				FAC species <u>30</u> x 3 = <u>90</u>	
2.				FACU species <u>0</u> x 4 = <u>0</u>	
3.				UPL species 0 x 5 = 0	D)
4.				Column Totals: <u>120</u> (A) <u>260</u> (3)
5.				Prevalence Index = B/A = 2.16	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting	
Eupatorium perfoliatum	80	Yes	FACW	data in Remarks or on a separate sheet)	
Verbena hastata	20	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
Juncus pylaei	10		OBL	¹ Indicators of hydric soil and wetland hydrology must	
Solidago rugosa			FAC	be present, unless disturbed or problematic.	
5.	15	No	FAC	Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
				at breast height (DBH), regardless of height.	
7 8.				Sapling/shrub – Woody plants less than 3 in. DBH	
<u> </u>				and greater than or equal to 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
				Woody vines – All woody vines greater than 3.28 ft in height.	
12.	125	= Total Cover		neignt.	
Woody Vine Stratum (Plot size: 30 ft.)	123	_ Total Cover			
				Hydrophytic	
2				Vegetation	
3				Present?	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

Sampling Point: DP-103

SOIL Sampling Point: DP-103 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 60 7.5YR 4/6 MS Silty Clay Loam 0-20 10YR 5/3 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Project	ct	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 19, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-104	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of R	Ripley	•	<u> </u>	
Landform (hillslope,		Hillslope			f (concave, con		Convex	-	Slope (%):	2
	•	LRR R				-			Datum: N	
Subregion (LRR or	-		1 1	Lat: 42.202343	i N	Long: 79.730244		" Nat Mone		1000
Soil Map Unit Name		silt loam, 0 to 3 percer					NWI classific		<u>sea</u>	
•	•	n the site typical for thi	•			o (If no,	, explain in R	emarks.)		
		, or Hydrology				Are "Normal Circun	nstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	If needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach s	ite map s	showing sam	npling point	locations, tra	ansects, i	mportant feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No		within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID:	:			
Оріани чатароні	1101 Welland 62	24. On hillslope adja	ACEIR TO GE	pression where	3 Welland 02-	+ IS IOCATEC. Opi	anu ueciuu	ous iorest.		
HYDROLOGY										
Wetland Hydrolo	gy Indicators:					_ (Secondary In	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all	that apply)				Surface Soi	il Cracks (B6)		
Surface Wat	er (A1)		Water-	-Stained Leaves (F	B9)		Drainage Pa	atterns (B10)		
High Water	Table (A2)		Aquatio	ic Fauna (B13)			Moss Trim I	Lines (B16)		
Saturation (A	43)		Marl D	Deposits (B15)			Dry-Season	Water Table (C2)	1	
Water Marks	s (B1)	1	Hydrog	gen Sulfide Odor ((C1)		Crayfish Bu	rrows (C8)		
Sediment De		1		ed Rhizospheres	_	(C3)		visible on Aerial Im		
Drift Deposit		,		nce of Reduced Iro				Stressed Plants (D	1)	
Algal Mat or		,		nt Iron Reduction in	,	(6)	=	c Position (D2)		
Iron Deposits		,		Muck Surface (C7)			Shallow Aqu			
	/isible on Aerial Im		Other ((Explain in Remar	rks)			raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)				<u> </u>	FAC-Neutra	al Test (D5)		
Field Observatio					Ī	İ				
Surface Water Pro		Yes No		,						
Water Table Pres		Yes No		h (inches):		Wetland Hydr	ology Prese	ent? Yes	No _	X
Saturation Preser		Yes No	x Depth	ı (inches):		ı				
(includes capillary Describe Recorde		auge, monitoring well,	aerial photo	ns previous inspe	ections), if availa	ahle.				
D0001.20 1.1111.	70 Data (0.1.2 5.	augo, mo.mo.m.g ,	4011a. p	30, pro-1.002	30110110,,	abio.				
Remarks:										
No wetland hydrolo	gy observed									

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes		
Acer rubrum	40	Yes	FAC	Number of Domin		3 (A)
2. Acer saccharum	50	Yes	FACU			(
Crataegus crus-galli			FAC	Total Number of Species Across A		6 (B)
- Orataogao orao gam	10	140	TAO			(5)
4				Percent of Domir That Are OBL, F		50 (A/B
5						
5.				Prevalence Inde	ex worksheet:	
7				Total % Cov	ver of:	Multiply by:
	100	= Total Cover		OBL species	0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species	40	x 2 = <u>80</u>
. Crataegus crus-galli	20	Yes	FAC	FAC species	80	x 3 = <u>240</u>
. Rosa multiflora	20	Yes	FACU	FACU species	50	x 4 = 200
L		<u> </u>		UPL species	10	x 5 = <u>50</u>
				Column Totals:	180	(A) <u>570</u> (B)
i,				Prevalence	e Index = B/A =	3 16
5						
S				Hydrophytic Ve	_	
·					est for Hydrophy nce Test is >50%	
	40	= Total Cover			nce Index is ≤3.0	
erb Stratum (Plot size: 5 ft.)	_					ns ¹ (Provide supporting
. Rosa multiflora	15	Yes	FACU	data in F	Remarks or on a	a separate sheet)
2. Fraxinus pennsylvanica	40	Yes	FACW	Problematic	: Hydrophytic Ve	egetation ¹ (Explain)
. Persicaria virginiana	10	No	FAC			land hydrology must
				be present, unles		·
. Fragaria vesca		No	UPL	Definitions of V		
				Definitions of V	_	
i				at breast height (•	m) or more in diameter
·						_
3.				Sapling/shrub – and greater than		ess than 3 in. DBH
)					·	,
10.				Herb – All herba		dy) plants, regardless of
1						
12.				Woody vines – /	All woody vines	greater than 3.28 ft in
	75	= Total Cover		Ŭ.		
oody Vine Stratum (Plot size: 30 ft.)	- 10	- 10101 00101				
	_					
				Hydrophytic		
·				Vegetation		
i				Present?	Yes _	Nox
l			_			
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a senarate she		_ 10tal 00va				
Remarks: (Include photo numbers here or on a separate she	eet.)					

SOIL Sampling Point: DP-103 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 5/4 90 10YR 5/8 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley Sc	olar and Storage Pro	oject		City/Coun	nty: Chauta	uqua Cou	nty	Sampling Date:	Aug 19, 2020
Applicant/Owner:	Connectgen Op	erating LLC						State: NY	Sampling Point:	DP-106
Investigator(s):	James Ireland				Section, To	ownship, Range	: To	wn of Ripley		
Landform (hillslope,	, terrace, etc.):	Hillslope			Local relief	f (concave, conv	vex, none)	: Convex	:	Slope (%): 4
Subregion (LRR or	MLRA):	LRR R		La	— at: 42.200917°	°N L	Long: 79.	.730603°W	_	Datum: NAD83
Soil Map Unit Name	-	silt loam; 3 to 8 perc	cent slone					NWI classif	ication: Not Mapp	ned
·		·			Von	v Na				-00
-	_	n the site typical for		-				(If no, explain in		
		, or Hydrology					re "Norma	I Circumstances" p	resent? Yes	x No
		, or Hydrology						explain any answer	·	ures, etc.
Hydrophytic Vege	etation Present?	Yes		No	х	Is the Sample	ed Area			
Hydric Soil Prese		Yes		No	X	within a Wetl		Yes	No	<u> </u>
Wetland Hydrolog		Yes		No	x	If yes, optiona	l Wetland	Site ID:		
HYDROLOGY										
Wetland Hydrolo	av Indicators:							Secondary I	ndicators (minimum	of two required)
=		o io roquirod: obook	all that ar	anlu()					·	or two required)
· · · · · · · · · · · · · · · · · · ·		e is required; check	-		inad Laguage /I	DO)			oil Cracks (B6)	
Surface Wat					ined Leaves (E	в9)			Patterns (B10)	
High Water			_	-	auna (B13)				Lines (B16)	
Saturation (A Water Marks	-		_	-	sits (B15) Sulfide Odor ((C1)			n Water Table (C2) urrows (C8)	
Sediment De			_	_		on Living Roots	(C3)		Visible on Aerial Im	eageny (CQ)
Drift Deposit			_		of Reduced Iro	_	(03)		Stressed Plants (D	
Algal Mat or	, ,		_			n Tilled Soils (C	6)		ic Position (D2)	•,
Iron Deposits			_		Surface (C7)	•	٠,		quitard (D3)	
l —	isible on Aerial In	nagery (B7)	_		olain in Remar				graphic Relief (D4)	
	getated Concave			` '		,			al Test (D5)	
Field Observatio										
Surface Water Pr	esent?	Yes No	<u>x</u> [epth (inc	ches):					
Water Table Pres	ent?	Yes No	<u>x</u> [epth (inc	ches):		Wetlan	d Hydrology Pres	ent? Yes	No x
Saturation Preser	nt?	Yes No	<u>x</u> D	epth (inc	ches):					
(includes capillary										
Describe Recorde	ed Data (stream g	auge, monitoring w	ell, aerial	photos, p	previous inspe	ections), if availa	able:			
Remarks:										
No wetland hydrolo	gy observed									

								06
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
. Acer saccharum	70	Yes	FACU	Number of Domin			2	(A)
. Prunus serotina	30	Yes	FACU	1110(7110 052, 17	7,011,7,0.			(',')
			17.00	Total Number of Species Across A			5	(B)
·							<u> </u>	_(5)
				Percent of Domir That Are OBL, F			40	(A/B
				1110(7110 032, 17	7,011,7,0.		10	
·				Prevalence Inde	ex worksheet:			
				Total % Cov	ver of:	N	fultiply by:	_
	100	= Total Cover		OBL species	0	x 1 =	0	
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species	30	x 2 =	60	
Crataegus crus-galli	10	Yes	FAC	FAC species	10	x 3 =	30	
				FACU species	100	x 4 =	400	
				UPL species	0	x 5 =	0	
				Column Totals:	140	(A)	490	(B
				Dravalana	e Index = B/A =	2.5		
				Frevalence	e muex = b/A =	3.0		
				Hydrophytic Ve	=			
					est for Hydrophy		etation	
	10	= Total Cover			nce Test is >50% nce Index is ≤3.0			
b Stratum (Plot size: 5 ft.)	10	- 10101 00101		_	ogical Adaptatio		vide supporti	ng
Rosa multiflora	75	Yes	FACU	data in F	Remarks or on a	separa	te sheet)	
Facilities and analysis analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis analysis analysis analysis analysis analysis analysis analysis anal				Problematic	Hydrophytic Ve	agetation	¹ (Evolain)	
	30	Yes	FACW	1.				
				¹ Indicators of hyd be present, unles		-		
				be present, unles	ss disturbed or p	nobiema	auc.	
				Definitions of V	egetation Strat	a:		
				Tree – Woody pl	ants 3 in. (7.6 cr	m) or mo	ore in diamete	r
				at breast height ((DBH), regardles	ss of hei	ght.	
				Sapling/shrub -	- Woody plants I	ess than	3 in. DBH	
				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
				Herb – All herba	ceous (non-woo	dy) plan	ts, regardless	of
).				size, and woody	plants less than	3.28 ft t	all.	
·				Woody vines –	All woody vines	greater t	han 3.28 ft in	
2				height.				
	105	= Total Cover						
ody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
				Vegetation	Yes _		No Y	
				Present?	169 _	'	No <u>×</u>	
		-						
	0	= Total Cove	r					

SOIL Sampling Point: DP-106 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 4/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Investigator(s): Landform (hillslope, to Subregion (LRR or M Soil Map Unit Name: Are climatic / hydrolog Are Vegetation Are Vegetation	ErA - Erie change conditions on present? ATT OF FINDI ATT OF FINISH ATT OF FINISH ATT OF FINISH ATT OF FINISH	Hillslope LRR R annery silt loam; 0 the site typical for , or Hydrology , or Hydrology Yes Yes Yes ures here or in a sield. Recently m	h site map No No Separate report	Local rel Lat: 42.1959 slopes ear? Yes inficantly disturbe urally problemat showing sa x x x x t.) ales.	xNo ed? Ar ic? (If ampling point Is the Sample within a Wetla	rex, none): None Nong: 79.725233°W NWI class (If no, explain in re "Normal Circumstances" needed, explain any answer locations, transects ad Area and? Wetland Site ID:	sification: Not Mapp n Remarks.) present? Yes ers in Remarks.)	tures, etc.
Investigator(s): Landform (hillslope, to Subregion (LRR or M Soil Map Unit Name: Are climatic / hydrology Are Vegetation Are Vegetation SUMMAF Hydrophytic Vegetathydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point) HYDROLOGY Wetland Hydrology Primary Indicators (1998)	James Ireland terrace, etc.): MLRA): ErA - Erie char regic conditions on , Soil RY OF FINDI ation Present? t? y Present? Ulternative procedut in active hay fi	Hillslope LRR R annery silt loam; 0 the site typical for , or Hydrology , or Hydrology Yes Yes Yes ures here or in a sield. Recently m	h site map No No Separate report	Local rel Lat: 42.1959 slopes ear? Yes inficantly disturbe urally problemat showing sa x x x x t.) ales.	x No ed? Ar iic? (If Impling point Is the Sample within a Wetla	rex, none): None Nong: 79.725233°W NWI class (If no, explain in re "Normal Circumstances" needed, explain any answer locations, transects ad Area and? Wetland Site ID:	sification: Not Mapp n Remarks.) present? Yes ers in Remarks.) s, important feat	Datum: NAD83 ped x No tures, etc.
Landform (hillslope, to Subregion (LRR or M Soil Map Unit Name: Are climatic / hydrolog Are Vegetation SUMMAF Hydrophytic Vegetathydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrology Primary Indicators (terrace, etc.): //LRA): ErA - Erie cha ogic conditions on, Soil RY OF FINDI ation Present? t? // Present? ulternative procedult in active hay fi	LRR R annery silt loam; 0 the site typical for , or Hydrology , or Hydrology Yes Yes Yes ures here or in a sield. Recently m	h site map No No Separate report	Local rel Lat: 42.1959 slopes ear? Yes inficantly disturbe urally problemat showing sa x x x x t.) ales.	x No ed? Ar iic? (If Impling point Is the Sample within a Wetla	rex, none): None Nong: 79.725233°W NWI class (If no, explain in re "Normal Circumstances" needed, explain any answer locations, transects ad Area and? Wetland Site ID:	sification: Not Mapp n Remarks.) present? Yes ers in Remarks.) s, important feat	Datum: NAD83 ped x No tures, etc.
Subregion (LRR or M Soil Map Unit Name: Are climatic / hydrolog Are Vegetation Are Vegetation SUMMAF Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (ErA - Erie change conditions on present? ATT OF FINDI ATT OF FINISH ATT OF FINISH ATT OF FINISH ATT OF FINISH	LRR R annery silt loam; 0 the site typical for , or Hydrology , or Hydrology Yes Yes Yes ures here or in a sield. Recently m	h site map No No Separate report	Lat: 42.1959 slopes ear? Yes inificantly disturbing salurally problemate x x x x t.) ales.	x No ed? Ar ic? (If ampling point Is the Sample within a Wetla	NWI class (If no, explain in re "Normal Circumstances" needed, explain any answe locations, transects ad Area and? Wetland Site ID:	sification: Not Mapp n Remarks.) present? Yes ers in Remarks.) s, important feat	Datum: NAD83 ped x No tures, etc.
Soil Map Unit Name: Are climatic / hydrolog Are Vegetation SUMMAF Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (ErA - Erie cha ogic conditions on , Soil , Soil RY OF FINDI ation Present? t? y Present? ulternative procedu in active hay fi	annery silt loam; 0 the site typical for , or Hydrology , or Hydrology NGS – Attach Yes Yes Yes Ures here or in a sield. Recently m	h site map No No Separate report	ear? Yes ear? Yes ifficantly disturb urally problemat showing sa x x x x t.) ales.	xNo ed? Ar ic? (If ampling point Is the Sample within a Wetla	NWI class (If no, explain in re "Normal Circumstances" needed, explain any answe locations, transects d Area and? Yes Wetland Site ID:	n Remarks.) present? Yes ers in Remarks.) s, important feat No	x No tures, etc.
Are climatic / hydrolog Are Vegetation Are Vegetation SUMMAF Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (gy Indicators: (minimum of one	n the site typical for, or Hydrology, or Hydrology NGS - Attach Yes _ Yes _ Yes _ ures here or in a sield. Recently m	h site map No No Separate report	ear? Yes inificantly disturbing urally problemate showing sa x x x x x at.) ales.	ed? Ar ic? (If impling point Is the Sample within a Wetla	(If no, explain in re "Normal Circumstances" needed, explain any answer locations, transects ransects	n Remarks.) present? Yes ers in Remarks.) s, important feat No	tures, etc.
Are Vegetation Are Vegetation SUMMAF Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (, Soil	, or Hydrology , or Hydrology NGS – Attach Yes Yes Yes Ures here or in a sield. Recently m	naturnation naturn	showing sa X X X x t.) ales.	ed? Ar ic? (If impling point Is the Sample within a Wetla	re "Normal Circumstances" needed, explain any answe locations, transects ad Area and? Yes Wetland Site ID:	present? Yes ers in Remarks.) s, important feat No	tures, etc.
Are Vegetation SUMMAF Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (RY OF FINDI ation Present? t? y Present? Ulternative procedut in active hay fi	yes _ Yes _ Yes _ Yes _ ures here or in a sield. Recently m	nate h site map No No No separate report nowed and ba	showing sa x x x x at.) ales.	ic? (If	needed, explain any answer locations, transects d Area and? Wetland Site ID:	ers in Remarks.) s, important feat	tures, etc.
Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (ation Present? t? y Present? Ulternative procedule in active hay fi	Yes Yes Yes Ures here or in a sield. Recently m	h site map No No No Separate report	x x x x t.) ales.	Is the Sample within a Wetla	locations, transects ad Area and? Yes	No	<u>x</u>
Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (ation Present? t? y Present? ulternative procedut in active hay fi	Yes _ Yes _ Yes _ ures here or in a s ield. Recently m	No No No Separate report nowed and ba	x x x x x x x x x x x x x x x x x x x	Is the Sample within a Wetla	ed Area and? Yes Wetland Site ID:	No	<u>x</u>
Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (t? y Present? Ilternative procedu in active hay fi gy Indicators: (minimum of one	Yes _ Yes _ ures here or in a s ield. Recently m	No No separate report nowed and ba	x x t.) ales.	within a Wetla	and? Yes		
Hydric Soil Present Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (t? y Present? Ilternative procedu in active hay fi gy Indicators: (minimum of one	Yes _ Yes _ ures here or in a s ield. Recently m	No No separate report nowed and ba	x x t.) ales.	within a Wetla	and? Yes		
Wetland Hydrology Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (y Present? Ulternative procedit in active hay fi gy Indicators: (minimum of one	Yes ures here or in a s ield. Recently m	No separate report nowed and ba	x.) ales.	If yes, optional		Indicators (minimum	of two required)
Remarks: (Explain al Upland data point HYDROLOGY Wetland Hydrolog Primary Indicators (gy Indicators:	ield. Recently m	separate report	t.) ales.	· · · · · · · · · · · · · · · · · · ·	Secondary	Indicators (minimum	of two required)
Wetland Hydrolog Primary Indicators ((minimum of one	is required; check	call that apply			Secondary	Indicators (minimum	of two required)
Primary Indicators ((minimum of one	is required; check	call that apply				maioatoro (m	101 100 10401.00,
		IS required, checi		١.		Surface	Sail Cracks (R6)	
Sullace water				-Stained Leaves	- (BO)		Soil Cracks (B6) e Patterns (B10)	
High Water Ta			_	-Stained Leaves ic Fauna (B13)	; (Da)		m Lines (B16)	
Saturation (A3				Deposits (B15)			son Water Table (C2)	١
Water Marks (•			gen Sulfide Odo	or (C1)		Burrows (C8)	,
Sediment Dep				=	es on Living Roots		on Visible on Aerial Im	nagery (C9)
Drift Deposits				nce of Reduced	=		or Stressed Plants (D	
Algal Mat or C					n in Tilled Soils (C6		ohic Position (D2)	,
Iron Deposits	` ,			Muck Surface (C	· ·	· — ·	Aquitard (D3)	
Inundation Vis	sible on Aerial Ima	agery (B7)	Other	(Explain in Rem	narks)	Microtopo	ographic Relief (D4)	
Sparsely Vege	etated Concave S	Surface (B8)				FAC-Neu	utral Test (D5)	
Field Observations	ıs:							
Surface Water Pres		Yes No			1			
Water Table Preser		Yes No			1	Wetland Hydrology Pre	esent? Yes	No x
Saturation Present?		Yes No	x Dept	h (inches):				
(includes capillary f		Marata area				• •		
Describe Recorded	Data (stream ga	luge, monitoring w	veli, aeriai phoi	tos, previous ins	pections), ir avalia	ble:		
Remarks: No wetland hydrolog	y observed							

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	70 00101	ороског.	Ciaido	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				That Are OBL, I ACW, OIT AC.	0(A)
3.				Total Number of Dominant Species Across All Strata:	1 (B)
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1					x 3 = 0
2					x 4 = 440
3					x = 0
4.				Column Totals: 110 ((A) <u>440</u> (B)
5				Prevalence Index = B/A = 4	
6.				Hydrophytic Vegetation Indicator	s:
7				1 - Rapid Test for Hydrophytic	Vegetation
	0	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)		= Total Cover		4 - Morphological Adaptations	1 (Provide supporting
1. Lolium perenne	70	Yes	FACU	data in Remarks or on a se	eparate sheet)
Phleum pratense	20	No	FACU	Problematic Hydrophytic Vege	tation ¹ (Explain)
3. Trifolium repens	20	No	FACU	¹ Indicators of hydric soil and wetlan	d hydrology must
4				be present, unless disturbed or prol	olematic.
5.				Definitions of Vegetation Strata:	
6.				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7				at breast height (DBH), regardless	of height.
8.				Sapling/shrub – Woody plants less	
9				and greater than or equal to 3.28 ft	(1 m) tall.
10				Herb – All herbaceous (non-woody)	
11.				size, and woody plants less than 3	
12				Woody vines – All woody vines gre height.	ater than 3.28 ft in
	110	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				1 -	Nox
4.					
-	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

Sampling Point: DP-107

SOIL Sampling Point: DP-107 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 3/3 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage P	roject		City/Cour	nty: Chauta	auqua Coun	ty	Sampling Date:	Aug 19, 2020
Applicant/Owner:	Connectgen Op	erating LLC						State: NY	Sampling Point:	DP-108
Investigator(s):	James Ireland				Section, To	ownship, Range	e: <u>Tow</u>	n of Ripley		
Landform (hillslope,	, terrace, etc.):	Depression			Local relief	f (concave, conv	vex, none):	Concave	;	Slope (%):1
Subregion (LRR or	MLRA):	LRR R			Lat: 42.185816	o°N I	Long: 79.7	' 31460°W		Datum: NAD83
Soil Map Unit Name	e: As - Allis silt	loam						NWI classit	ication: Not Mapp	ped
Are climatic / hydrol	logic conditions o	n the site typical fo	or this tir	me of ve	ar? Yes	x No	0	(If no, explain in	Remarks.)	
-	_	, or Hydrology		-				Circumstances" p		x No
								•		
		, or Hydrology						xplain any answer	important feat	tures, etc.
Hydrophytic Vege	etation Present?	Yes	х	No	•	Is the Sample	ed Area			
Hydric Soil Prese		Yes	x	— No		within a Wetla		Yes	x No	
Wetland Hydrolog		Yes	X	_ No		If yes, optiona	al Wetland S	Site ID: 024	Į.	
HYDROLOGY										
Wetland Hydrolo									ndicators (minimum	of two required)
		e is required; chec	k all tha						oil Cracks (B6)	
Surface Wat			_		-Stained Leaves (F	B9)		_	Patterns (B10)	
High Water			_	-	c Fauna (B13)				Lines (B16)	
Saturation (A	•				eposits (B15)	(04)			on Water Table (C2)	
Water Marks				-	gen Sulfide Odor ((02)		urrows (C8)	(00)
Sediment De					ed Rhizospheres once of Reduced Iro	_	s (C3)		Visible on Aerial Im	
Drift Deposite Algal Mat or			_		t Iron Reduction in	` '	·e)		Stressed Plants (D ic Position (D2)	1)
Iron Deposits					luck Surface (C7)	•	.0,		quitard (D3)	
	isible on Aerial In	nagery (B7)			(Explain in Remar				graphic Relief (D4)	
	getated Concave			,		-,			ral Test (D5)	
Field Observatio										
Surface Water Pre		Yes No	х	Depth	ı (inches):					
Water Table Pres	ent?	Yes No	х	Depth	ı (inches):		Wetland	l Hydrology Pres	ent? Yes	No
Saturation Preser		Yes No			n (inches):					
(includes capillary		**								
Describe Recorde	d Data (stream g	gauge, monitoring v	vell, aer	rial photo	os, previous inspe	ections), if availa	able:			
Remarks:										

Status FACU FACU OBL FACW FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40
ver OBL FACW	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40
ver OBL FACW	Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 $\times 1 = 40$ FACW species $55 \times 2 = 110$ FAC species 0 $\times 3 = 0$ FACU species $15 \times 4 = 60$ UPL species $5 \times 5 = 25$ Column Totals: $115 \times 5 = 25$ Column Totals: $115 \times 5 = 25$ Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is $\le 3.0^1$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
ver OBL FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 50
ver OBL FACW	That Are OBL, FACW, or FAC: 50 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species $\frac{40}{55}$ $\times 1 = \frac{40}{55}$ FACW species $\frac{55}{5}$ $\times 2 = \frac{110}{55}$ FAC species $\frac{9}{55}$ $\times 4 = \frac{9}{55}$ UPL species $\frac{15}{5}$ $\times 4 = \frac{9}{55}$ Column Totals: $\frac{115}{5}$ (A) $\frac{235}{5}$ (B) Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is $\leq 3.0^{1}$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
ver OBL FACW	Total % Cover of: Multiply by: OBL species 40
ver OBL FACW	Total % Cover of: Multiply by: OBL species 40
ver OBL FACW	OBL species $\frac{40}{55}$ $\times 1 = \frac{40}{55}$ FACW species $\frac{55}{5}$ $\times 2 = \frac{110}{55}$ FAC species $\frac{5}{5}$ $\times 4 = \frac{60}{55}$ UPL species $\frac{5}{5}$ $\times 5 = \frac{25}{55}$ Column Totals: $\frac{115}{5}$ (A) $\frac{235}{5}$ (B) Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is $\leq 3.0^{1}$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
ver OBL FACW	FACW species 55 $\times 2 = 110$ FAC species 0 $\times 3 = 0$ FACU species 15 $\times 4 = 60$ UPL species 5 $\times 5 = 25$ Column Totals: 115 $\times 4$ $\times 5 = 25$ Column Totals: 115 $\times 5 = 25$ Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is $\le 3.0^1$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	FAC species 0 $x 3 = 0$ FACU species 15 $x 4 = 60$ UPL species 5 $x 5 = 25$ Column Totals: 115 A 235 B B Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is $\le 3.0^1$ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	FACU species $\frac{15}{5}$ $\times 4 = \frac{60}{5}$ UPL species $\frac{5}{5}$ $\times 5 = \frac{25}{5}$ Column Totals: $\frac{115}{5}$ (A) $\frac{235}{5}$ (B) Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% $\frac{1}{5}$ 3 - Prevalence Index is $\frac{15}{5}$ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	Column Totals: 115 (A) 235 (B) Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	Prevalence Index = B/A = 2.04 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
OBL FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACW	
FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	¹ Indicators of hydric soil and wetland hydrology must
UPL	be present, unless disturbed or problematic.
FACU	Definitions of Vegetation Strata:
FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
	at breast height (DBH), regardless of height.
	Sapling/shrub – Woody plants less than 3 in. DBH
	and greater than or equal to 3.28 ft (1 m) tall.
	Herb – All herbaceous (non-woody) plants, regardless of
	size, and woody plants less than 3.28 ft tall.
	Woody vines – All woody vines greater than 3.28 ft in
	height.
ver	
	- Hadaanhada
	Hydrophytic Vegetation
	Present? Yes <u>×</u> No
over	
	ver

Sampling Point: DP-108

SOIL Sampling Point: DP-108 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 0-6 10YR 5/2 10YR 4/6 60 Clay 7.5YR 4/6 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 6 No Remarks:

Project/Site:	South Ripley Sol	ar and Storage Pro	ject	City/Coun	nty: Chauta	auqua County	,	Sampling Date:	Aug 19, 20)20
Applicant/Owner:	Connectgen Ope	erating LLC				Sta	ate: NY	Sampling Point:	DP-109	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town	of Ripley	_		
Landform (hillslope,		Depression			f (concave, con		Concave	,	Slope (%):	2
		LRR R		Lat: 42.185359°	•	Long: 79.732			Datum: NA	
Subregion (LRR or				Lat. 42.100000	ŤN i	Long: 19.102		" " NI=+ NA===		1000
Soil Map Unit Name							NWI classif		ped	
Are climatic / hydrol	-	• •	-			o (I	If no, explain in I	Remarks.)		
		, or Hydrology				re "Normal Ci	ircumstances" p	resent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, exp	olain any answer	s in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map s	showing sam	pling point	locations	s, transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site	e ID: 024	1		
HYDROLOGY										
Wetland Hydrolo	av Indicators:						Secondary I	ndicators (minimum	of two require	od)
		is required; check	all that apply)					•	OI IWO IEquire	3 (1)
Surface Wat		is required; check a		Stained Leaves (E	20)			oil Cracks (B6) Patterns (B10)		
x High Water			_	c Fauna (B13)	59,	•		Lines (B16)		
× Saturation (A				eposits (B15)		•		on Water Table (C2)	ı	
× Water Marks	•			gen Sulfide Odor ((C1)	•		surrows (C8)		
Sediment De				ed Rhizospheres o		; (C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit	s (B3)		Presen	ce of Reduced Iro	on (C4)		Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recent	Iron Reduction in	n Tilled Soils (C	6)	x Geomorph	nic Position (D2)		
Iron Deposits	s (B5)		x Thin M	uck Surface (C7)			Shallow A	quitard (D3)		
	isible on Aerial Im		Other (Explain in Remarl	ks)			graphic Relief (D4)		
Sparsely Ve	getated Concave S	3urface (B8)					X FAC-Neuti	ral Test (D5)		
Field Observatio			_		_	_	_	_	_	_
Surface Water Pro		Yes No _								
Water Table Pres		Yes x No		(inches): 8		Wetland H	Hydrology Pres	ent? Yes <u>x</u>	<u>x No</u>	
Saturation Preser (includes capillary		Yes x No	Deptn	(inches): 3						
, ,		auge, monitoring we	ell. aerial photo	s. previous inspe	ections), if availa	able:				
	_	3								
Remarks:										

						_	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes			
1. Betula alleghaniensis	40	Yes	FAC	Number of Domin		5	(A)
2. Tsuga canadensis	60	Yes	FACU				` ′ ′
				Total Number of Species Across A		6	(B)
				Doront of Domin	ant Charles		
				Percent of Domir That Are OBL, F		83.3	(A/I
5.							
6				Prevalence Inde			
(T 0		Total % Cov		Multiply by	
	100	= Total Cover		OBL species	0	x 1 = 0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	90	$x 2 = \frac{120}{x 3} = 270$	
Lindera benzoin	40	Yes	FACW	FACU species	60		
				UPL species	0	$x = \frac{210}{0}$	
3				Column Totals:	210	(A) 630	(E
l					-	_ (/	
i				Prevalence	e Index = B/A =	3	
5.	-			Hydrophytic Ve	getation Indica	tors:	
					est for Hydrophy		
				X 2 - Dominar			
	40	= Total Cover		X 3 - Prevaler			
erb Stratum (Plot size: 5 ft.)						ons ¹ (Provide sup _l a separate sheet)	porting
. Athyrium angustum	30	Yes	FAC		tomanto or orro		
2. Toxicodendron radicans	20	Yes	FAC	Problemation	Hydrophytic Ve	egetation ¹ (Explai	in)
3. Onoclea sensibilis	20	Yes	FACW	¹ Indicators of hyd	dric soil and wet	tland hydrology m	ust
i				be present, unles	ss disturbed or p	oroblematic.	
5.				Definitions of V	egetation Strat	a:	
S				Tree – Woody pl	ants 3 in. (7.6 ci	m) or more in diar	meter
				at breast height (,	•	
7				Sanling/shrub -	- Woody plants I	ess than 3 in. DB	н
				and greater than			
)				Herh – All herha	ceous (non-woo	ody) plants, regard	dless of
10				size, and woody			31000 01
11. <u> </u>				Woody vines –	All woody vines	greater than 3.28	ft in
12.				height.	iii woody viiioo	groater than 6.20	
	70	= Total Cover					
oody Vine Stratum (Plot size: 30 ft.)							
·							
				Hydrophytic			
				Vegetation	.,	v	
3.				Present?	Yes _	No	_
4							
	0	= Total Cove	r				

SOIL Sampling Point: DP-109 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Mucky Mineral 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) x Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Projec	xtt	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 19, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-110	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Hillslope			of (concave, conv	•	Convex		Slope (%):	2
	·				,	•				
Subregion (LRR or		LRR R		Lat: 42.186835	°N I	Long: 79.73266			Datum: N	AD63
Soil Map Unit Name	e: <u>ErB - Erie ch</u>	nannery silt loam; 3 to 8	3 percent sl	opes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for this	s time of ye	ar? Yes	<u>x</u> No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	j? A	re "Normal Circu	ımstances" pre	esent? Yes	x No	,
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	f needed, explain	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach si	te map :	showing sam	npling point	locations, t	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	— No		within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID):			
		dures here or in a sepa 024. On hillslope just			coniferous/de	eciduous fores	t			
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:					_	Secondary In	dicators (minimum	of two require	ed)
Primary Indicators	s (minimum of one	e is required; check all	that apply)				Surface Soi	il Cracks (B6)		
Surface Wat	ter (A1)	_	Water-	-Stained Leaves (F	B9)	_	Drainage P	atterns (B10)		
High Water	Table (A2)	_	Aquatir	ic Fauna (B13)		_	Moss Trim	Lines (B16)		
Saturation (A	A3)	_	Marl D	Deposits (B15)		_	_ Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)	-	Hydroç	gen Sulfide Odor ((C1)	_	Crayfish Bu	rrows (C8)		
Sediment De	eposits (B2)	-	Oxidize	ed Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposit	ts (B3)	-	Preser	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	-	Recent	t Iron Reduction in	n Tilled Soils (C	-6)	Geomorphi	c Position (D2)		
Iron Deposits	ts (B5)	-	Thin M	Muck Surface (C7)	1	_	Shallow Aq	uitard (D3)		
	Visible on Aerial Im	- · · · · -	Other ((Explain in Remar	rks)	_	_	raphic Relief (D4)		
Sparsely Ve	egetated Concave	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio	ons:									
Surface Water Pro	resent?	Yes Nox	Depth	ı (inches):						
Water Table Pres	sent?	Yes No x	x Depth	n (inches):		Wetland Hyd	Irology Prese	ent? Yes	No _	х
Saturation Preser	nt?	Yes No x		ı (inches):						
(includes capillary	y fringe)									
Describe Recorde	ed Data (stream ga	auge, monitoring well,	aerial photo	os, previous inspe	ections), if availa	able:				
Remarks: No wetland hydrolo	oav observed									
, ,	79, 0000000									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Tsuga canadensis	60	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
Fagus grandifolia			FACU	That Ale OBL, I ACW, OI I AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	3 (B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		-	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 0	x 2 = 0
1. Fagus grandifolia	30	Yes	FACU		x 3 = 0
2				FACU species 130	
3				UPL species 0 Column Totals: 130	
4				Column Totals: 130	(A) <u>520</u> (B)
5.				Prevalence Index = B/A =	4
6.				Hydrophytic Vegetation Indicate	tors:
7				1 - Rapid Test for Hydrophy	
	30	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0	
Herb Stratum (Plot size: 5 ft.)	30	- Total Cover		4 - Morphological Adaptation	ns ¹ (Provide supporting
1				data in Remarks or on a	separate sheet)
2.				Problematic Hydrophytic Ve	getation ¹ (Explain)
3.				¹ Indicators of hydric soil and wet	and hydrology must
4.				be present, unless disturbed or p	roblematic.
5.				Definitions of Vegetation Strata	a:
6.				Tree – Woody plants 3 in. (7.6 cr	n) or more in diameter
7				at breast height (DBH), regardles	s of height.
8.				Sapling/shrub – Woody plants le	ess than 3 in. DBH
9.				and greater than or equal to 3.28	ft (1 m) tall.
10				Herb – All herbaceous (non-wood	- · · ·
11.				size, and woody plants less than	
12.				Woody vines – All woody vines of height.	greater than 3.28 ft in
	0	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3.				_	Nox
4.					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.))				

SOIL Sampling Point: DP-110 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 0-20 10YR 5/4 100 Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley Sol	lar and Storage Pro	oject	City/Coun	ty: Chauta	auqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	e: NY	Sampling Point:	DP-111	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	f Ripley	_	<u> </u>	
Landform (hillslope,		Floodplain			(concave, con		Concave		Slope (%):	2
		LRR R		Lat: 42.181084°	,	Long: 79.7303			Datum: N	
Subregion (LRR or		LNNN		Lat. 42.10100-	IN I	LONG. 19.1000		" " BUDUL	Datam	ADOC
Soil Map Unit Name							NWI classif			
Are climatic / hydrol	-	• •	-			o (If i	no, explain in l	Remarks.)		
		, or Hydrology				Are "Normal Circ	umstances" p	resent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	(If	If needed, expla	in any answer	s in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point	locations,	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site	ID: 026	3		
associated with N	NYSDEC Wetian	id SK-8								
HYDROLOGY										
Wetland Hydrolo						-		ndicators (minimum	of two require	ed)
		is required; check						oil Cracks (B6)		
X Surface Wat				-Stained Leaves (E	39)		_	Patterns (B10)		
X High Water				ic Fauna (B13)		_		Lines (B16)		
× Saturation (A	•		_	Deposits (B15)	(04)	-		on Water Table (C2)		
Water Marks Sediment De	-			gen Sulfide Odor (ed Phizospheres (•	- (C2)		urrows (C8) Visible on Aerial Im	(CQ)	
Drift Deposit	. , ,			ed Rhizospheres once of Reduced Iro	=	; (C3)	_	Stressed Plants (D	• • • •	
Algal Mat or				nt Iron Reduction in	, ,	.6) <u> </u>		nic Position (D2)	')	
Iron Deposits	* *			Muck Surface (C7)	1102.22	_		quitard (D3)		
l —	/isible on Aerial Ima	agery (B7)		(Explain in Remark	ks)		_	graphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)			·	_	x FAC-Neuti			
Field Observatio	ons:					i				
Surface Water Pro		Yes <u>x</u> No								
Water Table Pres		Yes x No		n (inches): 0		Wetland Hy	drology Pres	ent? Yes <u></u>	x No	
Saturation Preser		Yes x No	Depth	h (inches): 0						
(includes capillary	<u> </u>	manitoring w	" coriol phot	t provious inspe						
Describe Records	30 Data (Siream ya	auge, monitoring w	eli, aeriai prioi	.0S, previous irispe	Ctions), ii avaiid	abie:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	70 00101	Сроской:	Otatao	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	
2.		-		That Are OBL, FACW, or FAC: 2 (A)	
3.		-		Total Number of Dominant Species Across All Strata: 2 (B)	
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species <u>130</u> x 1 = <u>130</u>	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0 x 2 = 0$	
1				FAC species <u>0</u> x 3 = <u>0</u>	
2				FACU species 0 x 4 = 0	
3				UPL species 0 x 5 = 0 Column Totals: 130 (A) 130 (B)	
4.				Column Totals: <u>130</u> (A) <u>130</u> (B)	
5				Prevalence Index = B/A = 1	_
6.				Hydrophytic Vegetation Indicators:	
7				X 1 - Rapid Test for Hydrophytic Vegetation	
	0	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting	
Juncus pylaei	80	Yes	OBL	data in Remarks or on a separate sheet)	
Schoenoplectus tabernaemontani	30	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Persicaria hydropiperoides	20	No	OBL	¹ Indicators of hydric soil and wetland hydrology must	
4.				be present, unless disturbed or problematic.	
5.				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8				Sapling/shrub – Woody plants less than 3 in. DBH	
9				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
11				size, and woody plants less than 3.28 ft tall.	
12				Woody vines – All woody vines greater than 3.28 ft in height.	
	130	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				Present? Yes <u>x</u> No	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-111 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Mucky Mineral ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) x Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	ar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				Stat	te: NY	Sampling Point:	DP-012	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town c	of Ripley	_		
Landform (hillslope,		Floodplain			f (concave, con		Concave	,	Slope (%):	2
		LRR R				•			Datum: NA	
Subregion (LRR or		LKK K		Lat: 42.181198	- N	Long: 79.730		" " DUDUIL	Datum. 1	1000
Soil Map Unit Name							NWI classif			
Are climatic / hydrol	=	• •	-				no, explain in F			
				nificantly disturbed		re "Normal Cir	cumstances" p	resent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	nat	turally problematic?	? (If	f needed, expla	ain any answer	s in Remarks.)		
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point	locations,	transects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No)	Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetl		Yes	x No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site	ID: 026	;		
not being to trave	730, 40000,410	Will IN ISSEC.	Tollana S							
	I. U. stano.						Odom/l	" : /inimum	C := == mule:	n .
Wetland Hydrolo				-		_		ndicators (minimum	of two require	ed)
		is required; check			D0\			oil Cracks (B6)		
X Surface Wat			_	er-Stained Leaves (E	89)	-		Patterns (B10)		
X High Water				tic Fauna (B13)		_		Lines (B16)		
X Saturation (A	•		_	Deposits (B15)	(C1)	_		n Water Table (C2)	i	
Water Marks Sediment De				ogen Sulfide Odor (zed Rhizospheres (- (C3)		urrows (C8)	cogony (CQ)	
Drift Deposit				zed Rhizospheres of ence of Reduced Iro	_			Visible on Aerial Im Stressed Plants (D		
Algal Mat or			_	nt Iron Reduction in	` '	:6) _		ic Position (D2)	1)	
Iron Deposits			_	Muck Surface (C7)	•	_		quitard (D3)		
	isible on Aerial Im	agery (B7)		r (Explain in Remar		_		graphic Relief (D4)		
l 	getated Concave S			(27,47,000)	KO,	_	x FAC-Neutr			
Field Observatio						_	<u> </u>			
Surface Water Pre		Yes x No	Dept	th (inches): 2		İ				
Water Table Pres		Yes x No				Wetland H	ydrology Pres	ent? Yes	x No	
Saturation Presen		Yes x No		th (inches): 0		İ	, ==			
(includes capillary			<u> </u>	· ·						
Describe Recorde	ed Data (stream ga	auge, monitoring we	ell, aerial pho	otos, previous inspe	ections), if availa	able:				
Remarks:										
Nomano.										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1	70 0010.	Орослост	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				That Ale OBL, I ACW, OT AC.
3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cover		OBL species 90 x 1 = 90
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 100 x 2 = 200
1. Salix alba	60	Yes	FACW	FAC species <u>10</u> x 3 = <u>30</u>
Rosa palustris	30	Yes	OBL	FACU species 0 $x 4 = 0$
3.				UPL species 0 $x = 0$
4				Column Totals: 200 (A) 320 (B)
5.				Prevalence Index = B/A = 1.6
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	0.0	T-4-1 0		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft.)	90	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
Juncus pylaei	- 50	Yes	OBL	data in Remarks or on a separate sheet)
Onoclea sensibilis	20	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Eupatorium perfoliatum			FACW	¹ Indicators of hydric soil and wetland hydrology must
Solidago rugosa	10		FAC	be present, unless disturbed or problematic.
Typha angustifolia	10		OBL	Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	110	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.	_			
2.				Hydrophytic
3	_			Vegetation
4.				Tresenti Tes No
*-	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate shee		= 10tal 00vc	•	
romano. (morado prioto manbera nere di dil a separate silee	,			

SOIL Sampling Point: DP-012 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Mucky Mineral ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) x Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	lar and Storage Proj	ject	City/Coun	ty: Chauta	uqua County		Sampling Date:	Aug 20, 20	2020
Applicant/Owner:	Connectgen Ope	erating LLC				State	e: NY	Sampling Point:	DP-113	
Investigator(s):	James Ireland			Section, To	ownship, Range:	: Town of	Ripley	-		
Landform (hillslope		Terrace			(concave, conv		None		Slope (%):	2
, ,					•	-			· · · · ·	
Subregion (LRR or		LRR R		Lat: 42.181316°	<u>'N</u> L	ong: 79.7292			Datum: N	AD63
Soil Map Unit Name	e: <u>ErB - Erie ch</u>	nannery silt loam; 3 to	o 8 percent slo	opes			_ NWI classifi		oed	
Are climatic / hydro	logic conditions or	n the site typical for the	his time of year	ar? Yes	x No	(If n	no, explain in F	Remarks.)		
Are Vegetation _	, Soil	, or Hydrology	signi	ficantly disturbed	? Ar	re "Normal Circ	umstances" pr	resent? Yes	x No	0
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	needed, explai	n any answer	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations,	transects,	important feat	tures, etc.	;_
Hydrophytic Vege	etation Present?	Yes	No	×	Is the Sample	nd Δrea				
Hydric Soil Prese		Yes	No	x	within a Wetla		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optional	Wetland Site	D:			
Upland data poil	nt for Wetland 02	26. Open mowed a	area in betw	een forested a	rea and east o	of large DEC v	wetland			
HYDROLOGY										
Wetland Hydrold							Secondary Ir	ndicators (minimum	of two requir	red)
•		e is required; check a	all that apply)			_		oil Cracks (B6)	01 1110 104	<u> </u>
Surface Wat	•	is required, erross a		Stained Leaves (E	<u> </u>			Patterns (B10)		
High Water			_	c Fauna (B13)	,,,	_	_	Lines (B16)		
Saturation (A				eposits (B15)		_		n Water Table (C2))	
Water Marks	•			gen Sulfide Odor (C1)	_		urrows (C8)		
	Deposits (B2)			ed Rhizospheres o	•	(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit				ice of Reduced Iro	=			Stressed Plants (D		
Algal Mat or				t Iron Reduction in		3)	_	ic Position (D2)	•	
Iron Deposit				uck Surface (C7)				quitard (D3)		
	Visible on Aerial Im	nagery (B7)		Explain in Remark	ks)	_		graphic Relief (D4)		
	egetated Concave S			•	,	_	FAC-Neutr			
Field Observation										
Surface Water Pr	resent?	Yes No	x Depth	(inches):						
Water Table Pres	sent?	Yes No	x Depth	(inches):		Wetland Hy	drology Pres	ent? Yes	No _	х
Saturation Preser		Yes No		(inches):						
(includes capillary	ry fringe)									
Describe Recorde	ed Data (stream ga	auge, monitoring wel	II, aerial photo	s, previous inspe	ctions), if availa	ble:				
Remarks:										
No wetland hydrolo	ogy observed									

Solute	Dominant Species?	ndicator Status	Dominance Tes Number of Domi That Are OBL, F Total Number of Species Across	nant Species ACW, or FAC:		0	
			That Are OBL, F	ACW, or FAC:		0	
			Total Number of			0	(4)
							_(A)
			Species Across				(D)
				All Strata:		1	_(B)
			Percent of Domi				(A (D)
			That Are OBL, F	ACW, or FAC:		0	_(A/B)
			Prevalence Inde	ex worksheet			
			Total % Co		М	ultiply by:	_
0	= Total Cover		OBL species	0	x 1 =	0	_
			FACW species	0	x 2 =	0	_
			FAC species	0	x 3 =	0	_
			FACU species	105	x 4 =	420	_
			UPL species	0	x 5 =	0	_
			Column Totals:	105	(A)	420	_ (B)
			Drovolono	e Indev – P/A –	4		
			1	_		tation	
						ıatıon	
0	= Total Cover						
			4 - Morphol	logical Adaptatio	ns ¹ (Pro		9
85	Yes	FACU	data in	Remarks or on a	separat	e sheet)	
10	No	FACU	Problemation	c Hydrophytic Ve	getation	¹ (Explain)	
10	No	FACU	¹ Indicators of hy	dric soil and wet	and hyd	rology must	
			1		-		
			Definitions of V	ogotation Strate			
				_			
					_		
				•			
							of
			height.	All woody vines (greater tr	1an 3.28 π In	
105	= Total Cover						
			Hydrophytic				
			Vegetation				
			Present?	Yes _	N	lo <u>x</u>	
	0 0	0 = Total Cover 0 = Total Cover No No No	0 = Total Cover 0 = Total Cover 10 No FACU No FACU	OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Hydrophytic Ve 1 - Rapid T 2 - Domina 3 - Prevale 4 - Morphol data in No FACU Problematic 1 Indicators of hy be present, unle Definitions of V Tree – Woody p at breast height Sapling/shrub - and greater than Herb – All herba size, and woody Woody vines – height. Hydrophytic Vegetation Hydrophytic Vegetation	OBL species 0 FACW species 0 FACU species 0 FACU species 105 UPL species 0 Column Totals: 105 Prevalence Index = B/A = Hydrophytic Vegetation Indicat 1 - Rapid Test for Hydrophyt 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 4 - Morphological Adaptation data in Remarks or on a FACU Problematic Hydrophytic Ve 10 No FACU Problematic Hydrophytic Ve 1 Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Vegetation Strate Tree – Woody plants 3 in. (7.6 cr at breast height (DBH), regardles Sapling/shrub – Woody plants les and greater than or equal to 3.28 Herb – All herbaceous (non-wood size, and woody plants less than Woody vines – All woody vines of height. Hydrophytic Vegetation	OBL species O x1 = FACW species O x2 = FAC species O x3 = FACU species O x5 = FACU species O x5 = Column Totals: 105 (A) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vege 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Prodata in Remarks or on a separate of the present, unless disturbed or problema Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or moat breast height (DBH), regardless of height size, and woody plants less than 3.28 ft to the woody vines - All woody vines greater the height. Hydrophytic Vegetation Hydrophytic Vegetation Hydrophytic Vegetation	OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 0 x3 = 0 FACU species 105 x4 = 420 UPL species 0 x5 = 0 Column Totals: 105 (A) 420 Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree — Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines — All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: DP-113 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 4/3 85 10YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	ConnectGEN, LI	 LC				State	e: NY	Sampling Point:	DP-114	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of	f Ripley	_		
Landform (hillslope,		Drainageway			f (concave, con		Concave		Slope (%):	2
					•	,			· · · · -	
Subregion (LRR or I	-	LRR R		Lat: 42.181255	<u>°N</u>	Long: 79.7260			Datum: NA	AD63
Soil Map Unit Name	e: As - Allis silt	loam					NWI classif	ication: Not Mapp	oed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of	/ear? Yes	X No	o (If r	no, explain in F	Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed	l? A	Are "Normal Circ	cumstances" pr	resent? Yes	X No	,
Are Vegetation	, Soil	, or Hydrology	na	turally problematic?	? (I	If needed, expla	in any answer	s in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	npling point	locations,	transects,	important feat	tures, etc.	,
Hydrophytic Vege	etation Present?	Yes	x No	0	Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetl		Yes	<u>х</u> No		
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site I	ID: 027			
HYDROLOGY										
Wetland Hydrolo	nav Indicators:						Secondary I	ndicators (minimum	of two require	ed)
		e is required; check	all that annly	. A		_	-	oil Cracks (B6)	OI two roquits	eu,
Surface Water		/ 15 16quirou, orioci.		er-Stained Leaves (E	R9)			Patterns (B10)		
High Water T				atic Fauna (B13)	55,		_	Lines (B16)		
Saturation (A				Deposits (B15)		_		n Water Table (C2)	1	
Water Marks	•			ogen Sulfide Odor ((C1)	_		urrows (C8)		
Sediment De	eposits (B2)		Oxidi	ized Rhizospheres	on Living Roots	s (C3)	Saturation	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)		Prese	ence of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Rece	ent Iron Reduction in	n Tilled Soils (C	;6) <u> </u>	X Geomorph	ic Position (D2)		
Iron Deposits	s (B5)		Thin	Muck Surface (C7)		_	Shallow Ad	quitard (D3)		
	isible on Aerial Im	• • • •	Othe	r (Explain in Remar	rks)			graphic Relief (D4)		
Sparsely Veo	getated Concave	Surface (B8)					x FAC-Neutr	al Test (D5)		
Field Observation		_	_				_	<u> </u>	_	_
Surface Water Pre		Yes No _								
Water Table Prese		Yes No		oth (inches):		Wetland Hy	drology Pres	ent? Yes <u> </u>	x No	
Saturation Presen (includes capillary		Yes No	х рер	th (inches):		l				
<u> </u>	<u> </u>	auge, monitoring we	ell. aerial pho	otos, previous inspe	ections), if availa	able:				
	-									
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	ndicator Status	Dominance Test worksheet:	
Acer saccharum	30	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	
Fraxinus pennsylvanica			FACW	That Are OBL, FACW, or FAC: 2 (A)	
3.				Total Number of Dominant Species Across All Strata: 3 (B)	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6 (A/E	3)
6					
7				Prevalence Index worksheet: Total % Cover of: Multiply by:	
		= Total Cover		OBL species 65 x 1 = 65	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 75 x 2 = 150	
1				FAC species 0 x 3 = 0	
2.				FACU species <u>60</u> x 4 = <u>240</u>	
3.				UPL species <u>0</u> x 5 = <u>0</u>	
4.				Column Totals: <u>200</u> (A) <u>455</u> (B)
				Prevalence Index = B/A = 2.27	
5				Hydrophytic Vegetation Indicators:	_
7.				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting	
,	0.5	.,	0.01	data in Remarks or on a separate sheet)	
1. Myosotis scorpioides	65	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
Impatiens capensis	30	No No	FACW		
3. Onoclea sensibilis			FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
4. Doellingeria umbellata	10	No No	FACW		_
5. Solidago canadensis	20	No No	FACU	Definitions of Vegetation Strata:	
6. Rubus idaeus	10	<u>No</u>	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
7 8.				Sapling/shrub – Woody plants less than 3 in. DBH	
				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless of	
10.				size, and woody plants less than 3.28 ft tall.	
11.				Woody vines – All woody vines greater than 3.28 ft in	
12				height.	
W	165	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1				Hydrophytic	
2				Vegetation	
3				Present? Yes <u>x</u> No	
4					
	0	= Total Cover	•		_
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: DP-114 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR 3/2 80 7.5YR 4/4 MS Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	lar and Storage Pro	oject	City/Count	ty: Chauta	uqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	Connectgen Op	erating LLC				State	: NY	Sampling Point:	DP-115	
Investigator(s):	James Ireland			Section To	wnship, Range	: Town of	Ripley	_		
Landform (hillslope,		Terrace			(concave, conv		None	,	Slope (%):	2
, , ,	,								· · · · ·	
Subregion (LRR or	MLR <u>A):</u>	LRR R	La	t: 42.181404°	N L	ong: 79.72580)9°W		Datum: N	ADOS
Soil Map Unit Name	e: As - Allis silt	loam					NWI classific	cation: Not Mapp	oed	
Are climatic / hydro	logic conditions or	n the site typical for	this time of year?	Yes	<u>x</u> No	(If no	o, explain in R	emarks.)		
Are Vegetation	, Soilx	, or Hydrology	significa	intly disturbed?	? A	re "Normal Circu	ımstances" pre	esent? Yes	<u>x</u> No	
Are Vegetation	, Soil	, or Hydrology	naturall	y problematic?	(If	needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map sho	owing sam	pling point	locations, t	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	Y	Is the Sample	od Δrea				
Hydric Soil Prese		Yes	No	^	within a Wetla		Yes	No	<u>x</u>	
Wetland Hydrolog		Yes	No No	х	If yes, optional	Wetland Site ID	D:			
Pemarks: (Evolain	alternative proced	dures here or in a se								
HYDROLOGY										
Wetland Hydrolo	ogy Indicators:					_	Secondary In	dicators (minimum	of two requir	ed)
Primary Indicators	s (minimum of one	e is required; check	all that apply)				Surface Soi	l Cracks (B6)		
Surface Wat	ter (A1)		Water-Sta	ined Leaves (B	39)		Drainage P	atterns (B10)		
High Water	Table (A2)		Aquatic Fa	una (B13)			Moss Trim I	Lines (B16)		
Saturation (A	A3)		Marl Depo	sits (B15)		_	Dry-Seasor	Water Table (C2)		
Water Marks	s (B1)		Hydrogen	Sulfide Odor (0	C1)	_	Crayfish Bu	rrows (C8)		
Sediment De	. , ,			•	n Living Roots	(C3)	-	/isible on Aerial Im		
Drift Deposit	, ,		·	of Reduced Iro		_	_	Stressed Plants (D	1)	
Algal Mat or					Tilled Soils (Co	<u> </u>	-	Position (D2)		
Iron Deposit		(5.7)		Surface (C7)	`	_	Shallow Aq			
	isible on Aerial In		Other (Exp	olain in Remark	(S)	_	_ Microtopogi _ FAC-Neutra	raphic Relief (D4)		
	getated Concave	Surface (B8)				_	FAC-Neutra	ai rest (D5)		
Field Observation Surface Water Pre		Voc. No.	y Donth (in	ahaa):						
Water Table Pres		Yes No				Wetland Hyd	Irology Prese	ent? Yes	No	v
Saturation Preser		Yes No				Wetland Hyd	ii ology i rese	iii: 1es	No	
(includes capillary		140	Depti (iii	ones).						
		auge, monitoring w	ell, aerial photos,	orevious inspe	ctions), if availa	ble:				
Remarks: No wetland hydrolo	nav observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1	7,0 0010.	ороског.	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.	_			That Ale OBL, I ACW, OIT AC.	(A)
3.				Total Number of Dominant Species Across All Strata:	0 (B)
4				1	
5	_			Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
**		= Total Cover			x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)					x 2 = 0
1	_			FAC species 0	x 3 = 0
2.					x 4 = 0
3.					x = 0
4				Column Totals: 0	(A) <u>0</u> (B)
5.				Prevalence Index = B/A = 0	
6.				Hydrophytic Vegetation Indicator	rs:
7.				1 - Rapid Test for Hydrophytic	
		-		2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover	Ī	 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations 	1 (Provide supporting
1.	=			data in Remarks or on a se	
2				Problematic Hydrophytic Vege	etation ¹ (Explain)
3.		-		¹ Indicators of hydric soil and wetlar	
		-		be present, unless disturbed or pro	·
4	_			Definitions of Vegetation Strata:	
6.		-		Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7		-		at breast height (DBH), regardless	
8.		-		Sapling/shrub – Woody plants les	s than 3 in. DBH
9		-		and greater than or equal to 3.28 ft	
10.		-		Herb – All herbaceous (non-woody) plants, regardless of
11.		-		size, and woody plants less than 3.	28 ft tall.
12.				Woody vines – All woody vines green height.	eater than 3.28 ft in
	0	= Total Cover	. ——	noight.	
Woody Vine Stratum (Plot size: 30 ft.)		_ = Total Gove			
	_				
				Hydrophytic	
2	_	· -		Vegetation	N- V
3	_			Present? Yes	NoX
4		T			
	0	= Total Cove	er		
Remarks: (Include photo numbers here or on a separate sheet Recently tilled food plot and no veg growing	I.)				

SOIL Sampling Point: DP-115 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 10YR3/2 85 7.5YR 4/6 MS Silty Clay Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) x Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	ity: Chauta	auqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-116	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Riplev	•		
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	1
	·					•				V D63
Subregion (LRR or I	-	LRR R		Lat: 42.181949°	·N ι	Long: 79.72516			Datum: NA	ADOS
Soil Map Unit Name	e: BrB - Bice fir	ne sandy loam; 3 to	8 percent slor	pes			_ NWI classifi		ed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	∍ar? Yes	<u>x</u> No	o (If no	o, explain in R	temarks.)		
Are Vegetation	<u>x</u> , Soil <u>x</u>	, or Hydrology	<u>x</u> sign	nificantly disturbed	? A	Are "Normal Circu	ımstances" pr	esent? Yes	x No	
Are Vegetation	, Soil	, or Hydrology	natı	urally problematic?	' (If	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Preser		Yes	x No		within a Wetla		Yes	x No		İ
Wetland Hydrolog	gy Present?	Yes _	x No		If yes, optiona	al Wetland Site ID	D: 028			
HYDROLOGY										
Wetland Hydrolo	nov Indicators:						Secondary In	ndicators (minimum	of two require	ed)
		e is required; check	all that anniv)	١				il Cracks (B6)	Or two require	<i>50)</i>
Surface Water	•	3 15 required, oncon		:-Stained Leaves (E		x		atterns (B10)		
High Water T				ic Fauna (B13)	39)	_^_	_	Lines (B16)		
Saturation (A				Deposits (B15)				n Water Table (C2)	1	
Water Marks	•			gen Sulfide Odor ((C1)	_	Crayfish Bu			
Sediment De				zed Rhizospheres c		(C3)	_	Visible on Aerial Im	nagery (C9)	
Drift Deposits	.s (B3)		Preser	nce of Reduced Iro	on (C4)	_	Stunted or	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (C	(6) <u>x</u>	Geomorphi	c Position (D2)		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
l —	isible on Aerial Im	. ,	Other	(Explain in Remark	ks)	X	_	raphic Relief (D4)		
Sparsely Vec	getated Concave	Surface (B8)				X	FAC-Neutra	al Test (D5)		
Field Observation	ns:									
Surface Water Pre	esent?	Yes No _		n (inches):						
Water Table Prese	ent?	Yes No _		h (inches):		Wetland Hyd	drology Prese	ent? Yes x	No_	
Saturation Presen		Yes No _	x Depth	ı (inches):						
(includes capillary		gauge, monitoring we	and parial phot	too provious inspe	ational if avails	ahla.				
Describe Mecorde	ili Dala (Sireani ye	auge, monitoring we	all, aeriai prior	08, previous irispe	Cliuris), ii avana	able.				
Remarks:										

							Point: DP-11	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
1. Fagus grandifolia	20	Yes	FACU	Number of Domi That Are OBL, F.			2	(A)
2. Magnolia acuminata	20	Yes	FACU					_ ` ′
3. Acer saccharum	5	No	FACU	Total Number of Species Across			5	(B)
				Descent of Demis	nant Chasias			
4. 				Percent of Domin That Are OBL, F.			40	_(A/B
5								
6.				Prevalence Inde				
7		= Total Cover		Total % Co			lultiply by:	_
Conline (Chrysh Chrohym (Diet eines 45 ft.)	45	= Total Cover		OBL species FACW species	95 0	-	95	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species FAC species	0		0	
1				FACU species	70	_	280	
2				UPL species	0	x 5 =	0	
3				Column Totals:	165	(A)	375	(B)
4								
5				Prevalenc	e Index = B/A =	2.27		
6				Hydrophytic Ve	getation Indica	tors:		
7					est for Hydrophy		tation	
	0	= Total Cover		2 - Dominai X 3 - Prevaler	nce Test is >50%			
erb Stratum (Plot size: 5 ft.)		= Total Cover		_	ogical Adaptatio		vide supportir	ng
Glyceria grandis	60	Yes	OBL		Remarks or on a			_
Juncus pylaei	25		OBL	Problematic	: Hydrophytic Ve	egetation	¹ (Explain)	
			OBL	¹ Indicators of hydronic				
3. Carex lurida	10	No		be present, unles		-		
4. Rubus idaeus		Yes	FACU	-				
5				Definitions of V	_			
6				Tree – Woody pl at breast height (•			Ī
7							_	
8				Sapling/shrub - and greater than				
9				_	•			
10				Herb – All herba size, and woody				of
11				Woody vines –				
12				height.	All woody vines	greater t	nan 3.28 II III	
	120	= Total Cover						
Voody Vine Stratum (Plot size: 30 ft.)								
1.								
				Hydrophytic				
2				Vegetation	V	γ .	1-	
ა.				Present?	Yes _	<u> </u>	···	
4								
	0	= Total Cove	r					

SOIL Sampling Point: DP-116 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/2 70 10YR 5/8 MS Clay Loam 0-20 7.5YT 4/4 MS Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: Soils have been disturbed due to logging

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 20, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-117	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			f (concave, conv		Concave	•	Slope (%):	2
	•				,	,			· · · · -	
Subregion (LRR or	-	LRR R		Lat: 42.190161°	°N ı	Long: 79.72561			Datum: NA	4D63
Soil Map Unit Name	e: ErA - Erie ch	nannery silt loam; 0 t	to 3 percent sl	iopes			NWI classific		oed	
Are climatic / hydrol	logic conditions or	n the site typical for	this time of ye	ar? Yes	X No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? A	re "Normal Circu	mstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map	showing sam	pling point	locations, tr	ransects, i	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area				
Hydric Soil Prese		Yes _	x No		within a Wetl	and?	Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	029			
HYDROLOGY										
Wetland Hydrolo	an Indicators						Secondary In	dicators (minimum	of two require	e4)
		- '- "- "' ohook	-!! that apply)					· · · · · · · · · · · · · · · · · · ·	OI IWO IEquit	<u>aa)</u>
	•	e is required; check					•	il Cracks (B6)		
Surface Wat High Water			_	-Stained Leaves (E ic Fauna (B13)	39 <i>)</i>	<u>X</u>	Moss Trim I	atterns (B10) Lines (B16)		
Saturation (A				Deposits (B15)				n Water Table (C2)	ı	
Water Marks	•			gen Sulfide Odor (i	(C1)		Crayfish Bu			
Sediment De				ed Rhizospheres o		(C3)	•	Visible on Aerial Im	nagery (C9)	
Drift Deposit				nce of Reduced Iro	_		_	Stressed Plants (D		
Algal Mat or				nt Iron Reduction in		x (6)	<u> </u>	c Position (D2)	•	
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aq	uitard (D3)		
	isible on Aerial Im		Other	(Explain in Remark	ks)	_X		raphic Relief (D4)		
Sparsely Ve	getated Concave	Surface (B8)				<u> </u>	FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pro	esent?	Yes No _		ı (inches):						
Water Table Pres	ent?	Yes No _		h (inches):		Wetland Hyd	rology Prese	ent? Yes x	x No	
Saturation Preser		Yes No _	x Depth	ı (inches):						
(includes capillary	<u> </u>		all porial phot	taa provious inspe	cations) if avails	ahla.				
Describe Records	M Data (Stream ga	auge, monitoring we	ы, аепаі рпов	os, previous irispe	Ctions), ii avaiid	able:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4	(A)
2.				That Ale OBL, FACW, 01 FAC. 4	_(A)
3				Total Number of Dominant Species Across All Strata: 4	(B)
<u> </u>					_(5)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
5					_`` ′
6				Prevalence Index worksheet:	
7		T-t-I O		Total % Cover of: Multiply by:	_
0 1 (0) 1 0 (0) (0)	0	= Total Cover		OBL species 0 x 1 = 0	_
Sapling/Shrub Stratum (Plot size: 15 ft.)	_			FACW species 130 x 2 = 260 FAC species 70 x 3 = 210	_
1. Clematis virginiana	60	Yes	FAC	FACU species 0 x 4 = 0	
2. Cornus amomum	40	Yes	FACW	UPL species 0 x 5 = 0	
3				Column Totals: 200 (A) 470	(B)
4					
5				Prevalence Index = B/A = 2.35	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	100	= Total Cover		X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations ¹ (Provide supporting	g
1. Spiraea tomentosa	60	Yes	FACW	data in Remarks or on a separate sheet)	
2. Geum canadense	10	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
Doellingeria umbellata	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must	
4.				be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
_				at breast height (DBH), regardless of height.	
7				Sapling/shrub – Woody plants less than 3 in. DBH	
				and greater than or equal to 3.28 ft (1 m) tall.	
9				Herb – All herbaceous (non-woody) plants, regardless	of
10				size, and woody plants less than 3.28 ft tall.	
11				Woody vines – All woody vines greater than 3.28 ft in	
12.				height.	
	100	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	_				
1					
2				Hydrophytic Vegetation	
3				Present? Yes <u>x</u> No	
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate shee	t.)				
Wool grass - 35					

SOIL Sampling Point: DP-117 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Loc² Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/2 40 10YR 5/8 MS Clay Loam 0-20 7.5YR 5/6 MS Clay Loam 10YR 5/2 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks: No hydric soils found

nnectgen Operating LLC nes Ireland ace, etc.): Hillslope A): LRR R As - Allis silt loam conditions on the site typ _, Soil, or Hydr _, Soil, or Hydr OF FINDINGS — A n Present? esent? native procedures here or Wetland 029. In decident	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	e of year? _significa _naturally map sho No _ No _ No _ report.) ad area a	Local relief at: 42.189281 Yes antly disturbed y problematic? owing sam x x	x No 1? Are 2 (If in a second of the second	ex, none): Cong: 79.725671 (If no, e "Normal Circum needed, explain a locations, trained? Wetland Site ID: he parcel.	ipley Convex "W NWI classification: , explain in Remark instances" present? any answers in Re ansects, impo	Slop : Not Mapped ks.) ? Yes emarks.) prtant feature Nox ors (minimum of twoks (B6)	x Noes, etc.	3 83
nes Ireland ace, etc.): Hillslope A): LRR R As - Allis silt loam conditions on the site typ _, Soil, or Hydr _, Soil, or Hydr OF FINDINGS — A n Present? esent? native procedures here or Wetland 029. In decident of the procedure of the proc	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	e of year? _significa _naturally map sho No _ No _ No _ report.) ad area a	Local relief at: 42.189281 Yes antly disturbed y problematic? owing sam x x x along eastern	x No x No x No x No x No x No x (If it x Sample within a Wetla If yes, optional in boundary of the	ex, none): Cong: 79.725671 (If no, e "Normal Circum needed, explain a locations, trained? Wetland Site ID: he parcel.	NWI classification: , explain in Remark instances" present? any answers in Re ansects, impo	: Not Mapped ks.) ? Yes emarks.) prtant feature Nox ors (minimum of twoks (B6)	x Noes, etc.	
A): LRR R As - Allis silt loam conditions on the site typ _, Soil, or Hydr OF FINDINGS — A n Present? esent? native procedures here or Wetland 029. In decident	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	e of year? _significa _naturally map sho No _ No _ No _ report.) ad area a	Local relief at: 42.189281 Yes antly disturbed y problematic? owing sam x x x along eastern	x No x No x No x No x No x No x (If it x Sample within a Wetla If yes, optional in boundary of the	ex, none): Cong: 79.725671 (If no, e "Normal Circum needed, explain a locations, trained? Wetland Site ID: he parcel.	NWI classification: , explain in Remark instances" present? any answers in Re ansects, impo	: Not Mapped ks.) ? Yes emarks.) prtant feature Nox ors (minimum of twoks (B6)	x Noes, etc.	
A): LRR R As - Allis silt loam conditions on the site typ _, Soil, or Hydr OF FINDINGS — A n Present? esent? native procedures here of Wetland 029. In decident of the condition of	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	e of year? _significa _naturally map sho No _ No _ No _ report.) ad area a	at: 42.189281 Yes antly disturbed y problematic? owing sam x x x along eastern	x No x No i? Arr i? (If in poling point I is the Sample within a Wetla if yes, optional in boundary of the	ong: 79.725671 (If no, e "Normal Circum needed, explain a locations, tradd Area and? Wetland Site ID: he parcel.	NWI classification: , explain in Remark instances" present? any answers in Re ansects, impo Yes Secondary Indicato Surface Soil Crace	: Not Mapped ks.) ? Yes emarks.) prtant feature Nox ors (minimum of twoks (B6)	x Noes, etc.	
As - Allis silt loam conditions on the site typ _, Soil, or Hydr _, Soil, or Hydr OF FINDINGS — A n Present? esent? native procedures here of Wetland 029. In decident	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	e of year? _significa _naturally map sho No _ No _ No _ report.) ad area a	y Yes antly disturbed y problematic? owing sam x x x along eastern	x No 1? Are 2 (If in a second of the second	(If no, e "Normal Circum needed, explain a locations, trad d Area and? Wetland Site ID:	NWI classification: , explain in Remark instances" present? any answers in Re ansects, impo Yes Secondary Indicato Surface Soil Crace	: Not Mapped ks.) ? Yes emarks.) Ortant feature Nox ors (minimum of twoks (B6)	x No	
conditions on the site typ _, Soil, or Hydr _, Soil, or Hydr _, Soil, or Hydr OF FINDINGS – A n Present? esent? native procedures here of Wetland 029. In decide wetland 029. In decide	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	significa naturally map sho No No Preport.) ad area a	antly disturbed y problematic? owing sam x x x along eastern	npling point I Is the Sample within a Wetla If yes, optional	(If no, e "Normal Circum needed, explain a locations, trad d Area and? Wetland Site ID: he parcel.	explain in Remark instances" present? any answers in Re ansects, impo Yes Secondary Indicato Surface Soil Crace	ks.) Yes emarks.) Prtant feature Nox Ors (minimum of two	es, etc.	
, Soil, or Hydr, Soil	rology ttach site n Yes Yes Yes Trin a separate riduous foreste	significa naturally map sho No No Preport.) ad area a	antly disturbed y problematic? owing sam x x x along eastern	npling point I Is the Sample within a Wetla If yes, optional	e "Normal Circum needed, explain a locations, tra d Area and? Wetland Site ID: he parcel.	nstances" present? any answers in Re ansects, impo Yes Secondary Indicato Surface Soil Crace	Permarks.) Portant feature No x Portant feature No ks (minimum of two cks (B6)	es, etc.	
oF FINDINGS – An Present? esent? native procedures here of Wetland 029. In decident of the control of the contr	Yes Yes Yes Tin a separate riduous foreste	naturally nap sho No No No report.) ad area a	y problematic? owing sam x x x along eastern	Is the Sampled within a Wetland If yes, optional in boundary of the	needed, explain a locations, tra d Area and? Wetland Site ID:	Any answers in Real ansects, imposes Yes	ors (minimum of two	es, etc.	
of FINDINGS – An Present? esent? esent? native procedures here of Wetland 029. In decident of the procedures here of the procedures here of the procedures here of the procedures here of the procedures here of the procedure here.	YesYes Yes r in a separate r duous foreste	No No report.) apply) Water-Stai	x x x along eastern	Is the Sample within a Wetla If yes, optional	d Area and? Wetland Site ID:	Yes	No x ors (minimum of two	_	
n Present? esent? native procedures here of Wetland 029. In decident of the control of the contr	YesYes Yes r in a separate r duous foreste	No No No No No No No No No No No No No N	x x x along eastern	Is the Sampled within a Wetla	d Area and? Wetland Site ID: he parcel.	YesSecondary Indicato	No x	_	-
esent? native procedures here of Wetland 029. In decident of the control of the c	Yes Yes r in a separate r duous foreste	No report.) ed area a	x along eastern	within a Wetla	nd? Wetland Site ID: he parcel.	Secondary Indicato Surface Soil Crac	ors (minimum of two		
esent? native procedures here of Wetland 029. In decident of the control of the c	Yes Yes r in a separate r duous foreste	No report.) ed area a	x along eastern	within a Wetla	nd? Wetland Site ID: he parcel.	Secondary Indicato Surface Soil Crac	ors (minimum of two		<u> </u>
native procedures here of Wetland 029. In decident of the control	r in a separate r duous foreste	report.) ed area a apply) Water-Stai	along eastern	n boundary of the	he parcel.	Secondary Indicato Surface Soil Crac	cks (B6)	wo required)	
Metland 029. In decident of the second of th	check all that a	apply) Water-Stai	nined Leaves (E			Surface Soil Crac	cks (B6)	wo required)	
nimum of one is required;	v	Water-Stai	-	B9)		Surface Soil Crac	cks (B6)	wo required)	
nimum of one is required;	v	Water-Stai	-	B9)		Surface Soil Crac	cks (B6)	wo requireu)	
•	v	Water-Stai	-	B9)					
1)			-	B9)		Drainage Paπeiii	s (B10)		
(40)						_	(D46)		
e (A2)		-			_	Moss Trim Lines			
)		-	osits (B15) Sulfide Odor ((C1)	_	Dry-Season Wate Crayfish Burrows			
ts (B2)		-		on Living Roots ((C3)	Saturation Visible		arv (C.9)	
3)			of Reduced Iro			Stunted or Stress	=	19 (00,	
t (B4)				n Tilled Soils (C6		Geomorphic Posi	` '		
)			Surface (C7)	-	´	Shallow Aquitard			
e on Aerial Imagery (B7)	_ (Other (Exp	plain in Remar	rks)		Microtopographic	: Relief (D4)		
ed Concave Surface (B8))					FAC-Neutral Test	t (D5)		
· · · · · · · · · · · · · · · · · · ·			ches):						
			,		Wetland Hydro	ology Present?	Yes	No x	_
	No x	Depth (in	ches):						
ge)		- I mb atan	ileue inene	tions) if ovoile	LI.				
ta (stream gauge, monic	oring weii, aeria	il pnotos, į	previous inspe	etions), ii avaliai	ole:				
bserved									
t î	? Yes Yes Yes e) ta (stream gauge, monito	? Yes No _x Yes No _x Yes No _x No _x e) ta (stream gauge, monitoring well, aeria	? Yes Nox Depth (in Yes Nox Depth (in Yes Nox Depth (in Yes Nox Depth (in e) ta (stream gauge, monitoring well, aerial photos,	? Yes Nox _ Depth (inches): Yes Nox _ Depth (inches): Yes Nox _ Depth (inches): e) ta (stream gauge, monitoring well, aerial photos, previous inspec	? Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): e) ta (stream gauge, monitoring well, aerial photos, previous inspections), if available	? Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Wetland Hydr Yes No _x _ Depth (inches): e) ta (stream gauge, monitoring well, aerial photos, previous inspections), if available:	? Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Wetland Hydrology Present? e) ta (stream gauge, monitoring well, aerial photos, previous inspections), if available:	? Yes No _x Depth (inches): Yes No _x Depth (inches): Yes No _x Depth (inches): e) ta (stream gauge, monitoring well, aerial photos, previous inspections), if available:	? Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): Yes No _x _ Depth (inches): e) ta (stream gauge, monitoring well, aerial photos, previous inspections), if available:

								3
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
I. Acer saccharum	60	Yes	FACU	Number of Domi			0	(A)
2. Prunus serotina	20	Yes	FACU					_(' ')
3.			17.00	Total Number of Species Across			4	(B)
								()
1				Percent of Domin			0	(A/B
5					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ū	_(,,,,
5.				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	Mu	ıltiply by:	_
	80	= Total Cover		OBL species	0	x 1 =	0	_
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0			
. Hamamelis virginiana	70	Yes	FACU	FAC species	0	-	0	_
1.				FACU species	160		640	_
		<u> </u>		UPL species	0			_
	· ·			Column Totals:	160	_ (A)	640	_ (B)
l.				Prevalenc	e Index = B/A =	4		
5								
S				Hydrophytic Ve	getation Indica est for Hydrophy		ation	
7					nce Test is >50%		ation	
	70	= Total Cover			nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)					ogical Adaptatio			g
. Prunus serotina	10	Yes	FACU	data in f	Remarks or on a	separate	sheet)	
				Problematic	: Hydrophytic Ve	egetation ¹	(Explain)	
				¹ Indicators of hy				
s				be present, unles				
4								
D				Definitions of V	_			
S				Tree – Woody pl	•	,		
7				at breast height ((DBH), regardies	ss or neigr	nt.	
3.				Sapling/shrub -				
Э				and greater than	or equal to 3.28	3π (1 m) τ	all.	
10				Herb – All herba				of
11.				size, and woody				
12.				Woody vines – height.	All woody vines	greater tha	an 3.28 ft in	
	10	= Total Cover						
loody Vine Stratum (Plot size: 30 ft.)		- Total Cover						
•								
				Hydrophytic				
				Vegetation				
3				Present?	Yes _	No	o <u>x</u>	
1		= Total Cove	r					
4	0							

SOIL Sampling Point: DP-118 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 7.5YR 3/4 90 10YR 3/3 MS Silt Loam 0-20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

Project/Site:	South Ripley Sol	lar and Storage Proj	ject	City/Count	ity: Chauta	auqua County		Sampling Date:	Aug 21, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State	: NY	Sampling Point:	DP-119	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of I	Ripley	•		
Landform (hillslope,		Depression			f (concave, conv		Concave		Slope (%):	2
	•					•			· · · · -	
Subregion (LRR or I		LRR R		Lat: 42.182015°	'N ı	Long: 79.72753			Datum: NA	ADOS
Soil Map Unit Name	: LnB - Lima si	ilt loam; 3 to 8 perce	ent slopes				_ NWI classifi	cation: Not Mapp	oed	
Are climatic / hydrol	logic conditions on	n the site typical for t	this time of ye	ar? Yes	X No	o (If no	o, explain in R	lemarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	Are "Normal Circu	ımstances" pr	esent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	' (If	f needed, explair	n any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	: locations, t	ransects,	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area	_		_	_
Hydric Soil Prese		Yes	x No		within a Wetl		Yes	x No		İ
Wetland Hydrolog		Yes	x No		If yes, optiona	al Wetland Site ID	D: 030			
HYDROLOGY										
	Indicatora						Casandory Ir	-!:store (minimum	-f hus roquir	1/
Wetland Hydrolo			2.2. (==1.3					idicators (minimum	of two require	3 a)
		e is required; check a					-	il Cracks (B6)		
Surface Water				-Stained Leaves (B	39)	X	_	atterns (B10)		
High Water 7				c Fauna (B13)			_	Lines (B16)		
Saturation (A	•			eposits (B15)	(C4)		_	n Water Table (C2)	1	
Water Marks Sediment De				gen Sulfide Odor ((- (C2)	Crayfish Bu	-	2220n/ (CQ)	
Drift Deposits				ed Rhizospheres once of Reduced Iro	_	· (C3)	_	Visible on Aerial Im Stressed Plants (D		
Algal Mat or				t Iron Reduction in		(6) x	_	c Position (D2)	1)	
Iron Deposits	` '			luck Surface (C7)	111100 005 (-	0) <u></u>	Shallow Aq			
	isible on Aerial Im	agery (B7)		(Explain in Remark	ks)	X	-	raphic Relief (D4)		
	getated Concave S			'	-,		FAC-Neutra			
Field Observatio						_				
Surface Water Pre		Yes No _	x Depth	ı (inches):						
Water Table Pres	ent?	Yes No	x Depth	n (inches):		Wetland Hyd	drology Prese	ent? Yes x	x No	
Saturation Presen		Yes No		ı (inches):						
(includes capillary	/ fringe)									
Describe Recorde	ed Data (stream ga	auge, monitoring we	II, aerial photo	os, previous inspe	ctions), if availa	able:				
Remarks:										
Remarks.										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Populus tremuloides	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
Acer rubrum		Yes	FAC	That Ale OBE, I AGW, GIT AC.
				Total Number of Dominant Species Across All Strata: 7 (B)
3.				
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 71 (A/B)
5.				
6				Prevalence Index worksheet:
7	30	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft.)		- 10tal 00101		FACW species 100 x 2 = 200
Fraxinus pennsylvanica	40	Yes	FACW	FAC species <u>35</u> x 3 = <u>105</u>
Populus tremuloides				FACU species <u>35</u> x 4 = <u>140</u>
3.		100	17.00	UPL species <u>0</u> x 5 = <u>0</u>
4				Column Totals: <u>170</u> (A) <u>445</u> (B)
5				Prevalence Index = B/A = 2.61
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	55	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
·	05	V	F40	data in Remarks or on a separate sheet)
Solidago rugosa	25	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Onoclea sensibilis Duhus bissidaida			FACW	Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must
3. Rubus hispidoides	30	Yes	FACW	be present, unless disturbed or problematic.
4				
5				Definitions of Vegetation Strata:
0				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10.				size, and woody plants less than 3.28 ft tall.
11.				Woody vines – All woody vines greater than 3.28 ft in
12.				height.
W. J. W. 20 (20 (20 (20 (20 (20 (20 (20 (20 (20	85	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				Hydrophytic
2				Vegetation
3				Present? Yes X No No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL Sampling Point: DP-119 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/2 100 Clay Loam 10YR 5/2 7.5YR 4/6 60 Clay Loam 10YR 5/8 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

Project/Site:	South Ripley Sol	lar and Storage Project		City/Coun	nty: Chauta	auqua County		Sampling Date:	Aug 21, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-120	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Terrace			f (concave, con		None	•	Slope (%):	2
, ,					,	,			Datum: N	
Subregion (LRR or I		LRR R		Lat: 42.181579°	°N I	Long: 79.72808				ADOS
Soil Map Unit Name		ilt loam; 3 to 8 percent sl					NWI classific		ped	
Are climatic / hydrol	logic conditions on	n the site typical for this ti	ime of yea	ır? Yes	X No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	signifi	icantly disturbed	? A	Are "Normal Circu	mstances" pre	esent? Yes	X No	,
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic?	? (1	lf needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FINDI	INGS – Attach site	∍ map s	howing sam	pling point	locations, tr	ransects, i	important feat	tures, etc.	·
Hydrophytic Vege	etation Present?	Yes	No		Is the Sample	ed Area				
Hydric Soil Presei		Yes	No	x	within a Wetl		Yes	No	x	
Wetland Hydrolog		Yes	No		If yes, optiona	al Wetland Site ID) :			
		lures here or in a separa 30. Located adjacent			n field.					
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two requir	ed)
Primary Indicators	s (minimum of one	e is required; check all the	at apply)				Surface Soi	il Cracks (B6)		
Surface Water	ter (A1)		Water-S	Stained Leaves (E	39)		Drainage P	atterns (B10)		
High Water 1	Table (A2)	_	Aquatic	Fauna (B13)		<u> </u>	Moss Trim I	Lines (B16)		
Saturation (A	43)	_	Marl De	eposits (B15)			Dry-Season	n Water Table (C2))	
Water Marks	s (B1)	_	Hydroge	en Sulfide Odor ((C1)		Crayfish Bu	irrows (C8)		
Sediment De	eposits (B2)	_	Oxidized	d Rhizospheres o	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposits	s (B3)	_	Presenc	ce of Reduced Iro	on (C4)	_	Stunted or S	Stressed Plants (D	1)	
Algal Mat or	Crust (B4)	_	Recent	Iron Reduction in	n Tilled Soils (C	(6)	Geomorphic	c Position (D2)		
Iron Deposits	s (B5)	_	_ Thin Mu	uck Surface (C7)		_	Shallow Aq	uitard (D3)		
_	isible on Aerial Im		Other (F	Explain in Remarl	ks)	_		raphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio	ns:									
Surface Water Pre	esent?	Yes Nox	_ Depth ((inches):		ı				
Water Table Pres	ent?	Yes Nox	Depth ((inches):		Wetland Hyd	rology Prese	ent? Yes	No	х
Saturation Presen		Yes Nox				ı				
(includes capillary	<u> </u>									
Describe Recorde	ed Data (stream ga	auge, monitoring well, ae	rial photos	s, previous inspe	ections), if availa	able:				
Remarks:										
No wetland hydrolo	ogy observed									

							Point: DP-12	
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes				
Acer saccharum	25	Yes	FACU	Number of Domi That Are OBL, F			0	(A)
2. Populus tremuloides	5	No	FACU					_(' ')
				Total Number of Species Across			5	(B)
3							Ü	_(_)
1				Percent of Domi That Are OBL, F			0	(A/B
5				111017110 052, 1	7.077, 01 1 7.0.			_(///
6				Prevalence Inde	ex worksheet:			
7				Total % Co	ver of:	N	lultiply by:	_
	30	= Total Cover		OBL species	0	x 1 =	0	
apling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 =	0	
. Rhus typhina	25	Yes	UPL	FAC species	0	x 3 =	0	
2.				FACU species	130	x 4 =	520	
				UPL species	25	x 5 =	125	
·				Column Totals:	155	(A)	645	(B)
				Description	a la dan D/A	4.40		
·				Prevalenc	e Index = B/A =	4.16		
i				Hydrophytic Ve	_			
·					est for Hydrophy		tation	
	25	= Total Cover			nce Test is >50% nce Index is ≤3.0			
erb Stratum (Plot size: 5 ft.)		= Total Cover			ogical Adaptatio		vide supportin	ng
. Lolium perenne	60	Yes	FACU		Remarks or on a			J
				Droblemetic	a I Ivalean hvatia Va		1 (Evaleia)	
. Trifolium repens	20	Yes	FACU	Problemation				
. Plantago major	20	Yes	FACU	¹ Indicators of hy		-		
l				be present, unle	ss disturbed or p	roblema	tic.	
i				Definitions of V	egetation Strat	a:		
S				Tree – Woody p	lants 3 in. (7.6 ci	m) or mo	re in diameter	-
				at breast height	(DBH), regardles	ss of hei	ght.	
				Sapling/shrub -	- Woody plants I	ess than	3 in. DBH	
				and greater than	or equal to 3.28	3 ft (1 m)	tall.	
-				Herb – All herba	ceous (non-woo	dy) plan	ts, regardless	of
0				size, and woody				
1				Woody vines –	All woody vines	greater t	han 3.28 ft in	
2				height.		•		
	100	= Total Cover						
oody Vine Stratum (Plot size: 30 ft.)								
				Hydrophytic				
·				Vegetation				
l				Present?	Yes _	^	lo <u>x</u>	
l								
	0	= Total Cove	r					

SOIL Sampling Point: DP-120 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Type¹ Color (moist) Color (moist) Loc² (inches) % Texture Remarks 0-20 10YR 3/4 90 10YR 4/6 MS Silt Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils found

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	South Ripley So	olar and Storage Proj	ject	City/Count	ity: Chauta	auqua County		Sampling Date:	Aug 21, 20	020
Applicant/Owner:	Connectgen Ope	erating <u>LLC</u>				State:	: NY	Sampling Point:	DP-121	
Investigator(s):	James Ireland			Section, To	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Depression			(concave, con	•	Concave		Slope (%):	2
	·					•			· · · · -	
Subregion (LRR or		LRR R		Lat: 42.188517°	'N ι	Long: 79.72793			Datum: NA	4D03
Soil Map Unit Name	e: As - Allis silt	loam					NWI classific		oed	
Are climatic / hydrol	logic conditions or	n the site typical for t	this time of ye	ar? Yes	<u>x</u> No	o (If no	o, explain in R	emarks.)		
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed?	? A	re "Normal Circu	ımstances" pre	esent? Yes	X No	·
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	(If	f needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations, t	ransects, i	important feat	tures, etc.	ı
Hydrophytic Vege	etation Present?	Yes	x No		Is the Sample	ed Area	_	_	_	_
Hydric Soil Prese		Yes	x No		within a Wetla		Yes	x No		
Wetland Hydrolog	gy Present?	Yes	x No		If yes, optiona	al Wetland Site ID	D: 029			
HYDROLOGY										
Wetland Hydrolo							Secondary In	dicators (minimum	of two require	~q)
_		- '- raguiradi abaak	-" that apply)			_	-		Of two require	<u>aa)</u>
Surface Wat	•	e is required; check a		-Stained Leaves (B	20)		-	il Cracks (B6) atterns (B10)		
High Water				c Fauna (B13)	39)	<u>X</u>	-	Lines (B16)		
Saturation (A				eposits (B15)			_	n Water Table (C2)	.	
Water Marks	•			gen Sulfide Odor ((C1)		Crayfish Bu		,	
Sediment De				ed Rhizospheres o	•	(C3)	-	Visible on Aerial Im	nagery (C9)	
Drift Deposit	. , ,			nce of Reduced Iro	_		-	Stressed Plants (D		
Algal Mat or				t Iron Reduction in		x (6)	<u> </u>	c Position (D2)	•	
Iron Deposits	ıs (B5)		Thin M	luck Surface (C7)		_	Shallow Aq	uitard (D3)		
	Visible on Aerial Im		Other ((Explain in Remark	ks)	X		raphic Relief (D4)		
Sparsely Ve	egetated Concave	Surface (B8)				<u>X</u>	FAC-Neutra	al Test (D5)		
Field Observatio	ons:									
Surface Water Pro	esent?	Yes No _		(inches):						
Water Table Pres	sent?	Yes No _		n (inches):		Wetland Hyd	rology Prese	ent? Yes <u>x</u>	x No	
Saturation Preser		Yes No _	x Depth	(inches):						
(includes capillary	· · ·			provious incho	-tional if avails					
Describe Records	30 Data (Stream ye	auge, monitoring we	я, аена рнос)S, previous irisped	Ctions), ii avaiid	able:				
Remarks:										

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2		100	171011	That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant Species Across All Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80(A/B)
6.				
7.				Prevalence Index worksheet: Total % Cover of: Multiply by:
·		= Total Cover		OBL species 40 x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 45 x 2 = 90
Cornus racemosa	60	Yes	FAC	FAC species <u>110</u> x 3 = <u>330</u>
Clematis virginiana	30	Yes	FAC	FACU species <u>40</u> x 4 = <u>160</u>
3.				UPL species 0 x 5 = 0
4.				Column Totals: <u>235</u> (A) <u>620</u> (B)
5.				Prevalence Index = B/A = 2.63
6.				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft.)	90	= Total Cover		X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
Scirpus atrovirens	20	No	OBL	data in Remarks or on a separate sheet)
Carex lurida	20	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
Doellingeria umbellata		Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
Solidago canadensis	40		FACU	be present, unless disturbed or problematic.
Solidago rugosa	20	,,		Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb - All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in height.
	130	= Total Cover		norgin.
Woody Vine Stratum (Plot size: 30 ft.)	130	- Total Cover		
1.				
				Hydrophytic
2				Vegetation
3	-			Present? Yes X No No
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)			

Sampling Point: DP-121

SOIL Sampling Point: DP-121 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 3/2 100 Clay Loam 10YR 5/2 7.5YR 5/8 60 Clay Loam 10YR 3/2 Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes Depth (inches): No Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	South Ripley So	olar and Storage Pro	oject	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 6, 202	20
Applicant/Owner:	Connectgen Ope	erating LLC				State:	NY	Sampling Point:	DP-122	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of Rip	olev			
Landform (hillslope,		Hillslope			ef (concave, conv		Convex	,	Slope (%):	2
	•	LRR R		Lat: 42.185912	·	Long: 79.754427°			Datum: NA	
Subregion (LRR or	-		2:-0 nores		<u> </u>			" Not Mone		1000
Soil Map Unit Name		ia channery silt loan					NWI classifica		ped	
Are climatic / hydrol	=		-			o (If no, e	explain in Re	marks.)		
		, or Hydrology				are "Normal Circums	stances" pres	sent? Yes	X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic	? (If	f needed, explain a	ıny answers i	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	ı site map s	showing sam	npling point	locations, tra	ınsects, ir	mportant feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	X No		within a Wetl		Yes	No	<u>x</u>	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID:				
HYDROLOGY										
Wetland Hydrolo	oay Indicators:					Sc	econdary Ind	dicators (minimum	of two require	ed)
_		e is required; check	all that apply)				Surface Soil	•	0	,
Surface Wat	•	rio roganez, z		-Stained Leaves ((B9)		Drainage Pa			
High Water			_	c Fauna (B13)	,		Moss Trim Li			
Saturation (A				eposits (B15)				Water Table (C2))	
Water Marks	s (B1)		Hydroç	gen Sulfide Odor ((C1)	_ (Crayfish Bur	rows (C8)		
Sediment De	eposits (B2)		Oxidize	ed Rhizospheres	on Living Roots	(C3)	Saturation V	isible on Aerial Im	nagery (C9)	
Drift Deposit	is (B3)		Presen	nce of Reduced Ir	on (C4)	:	Stunted or S	tressed Plants (D	1)	
Algal Mat or	• •			t Iron Reduction in	•	· —	•	Position (D2)		
Iron Deposits				fluck Surface (C7)			Shallow Aqu			
_	/isible on Aerial Im	• • • •	Other ((Explain in Remar	rks)			aphic Relief (D4)		
Sparsely Ve	getated Concave S	Surface (B8)					FAC-Neutral	Test (D5)		
Field Observatio			5							
Surface Water Pro		Yes No				W. deed Usedna	· · · · · · · · · · · · · · · · · · ·	:2 V-a	Na	
Water Table Pres		Yes No			1	Wetland Hydro	llogy Preser	nt? Yes	No _	<u> </u>
Saturation Preser		Yes No	х Берин	(inches):						
(includes capillary Describe Recorde		auge, monitoring w			ections), if availa	able:				
Remarks:										
No wetland hydrolo	ogy observed									

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Fagus grandifolia	40	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. Magnolia acuminata	40	Yes	FACU		(, ,
				Total Number of Dominant Species Across All Strata:	6 (B)
3					(5)
1				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B
5					
5				Prevalence Index worksheet:	
7				Total % Cover of:	Multiply by:
	80	= Total Cover		OBL species 0	x 1 = 0
apling/Shrub Stratum (Plot size: 15 ft.)				·	x 2 = 0
. Fagus grandifolia	20	Yes	FACU		x 3 = 0
2.					x 4 = <u>920</u>
3					x 5 = 0
				Column Totals: 230	(A) <u>920</u> (B)
l.				Prevalence Index = B/A = 4	
5					
S				Hydrophytic Vegetation Indicator	
7				1 - Rapid Test for Hydrophytic 2 - Dominance Test is >50%	vegetation
	20	= Total Cover		3 - Prevalence Index is ≤3.0 ¹	
erb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations	
. Rubus idaeus	40	Yes	FACU	data in Remarks or on a se	eparate sheet)
2. Solidago canadensis	50	Yes	FACU	Problematic Hydrophytic Vege	etation ¹ (Explain)
B. Lolium perenne	40	Yes	FACU	¹ Indicators of hydric soil and wetlar	nd hydrology must
				be present, unless disturbed or pro	·
4. -				Definitions of Vanatation Charles	
5				Definitions of Vegetation Strata:	
5. <u> </u>				Tree – Woody plants 3 in. (7.6 cm) at breast height (DBH), regardless	
7					_
B				Sapling/shrub – Woody plants les and greater than or equal to 3.28 ft	
9.					,
10				Herb – All herbaceous (non-woody size, and woody plants less than 3.	
1					
12				Woody vines – All woody vines green height.	eater than 3.28 ft in
	130	= Total Cover			
/oody Vine Stratum (Plot size: 30 ft.)					
•				Hydrophytic	
				Vegetation	
3				Present? Yes	Nox
l					
	0	= Total Cove	r		

SOIL Sampling Point: DP-122 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay Loam 0-6 10YR 4/4 10YR 4/1 60 Clay 7.5YR 5/8 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Clay Hydric Soil Present? Yes Depth (inches): 6 No Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	South Ripley Sol	lar and Storage Project	t	City/Cour	nty: Chauta	auqua County		Sampling Date:	Aug 12, 20	020
Applicant/Owner:	Connectgen Ope	erating LLC				State:	: NY	Sampling Point:	DP-123	
Investigator(s):	James Ireland			Section, T	ownship, Range	e: Town of F	Ripley	•		
Landform (hillslope,		Terrace			ef (concave, con		Convex		Slope (%):	2
	•									
Subregion (LRR or	-	LRR R		Lat: 42.195859	}°N □	Long: 79.73885			Datum: N	AD63
Soil Map Unit Name	ErA - Erie ch	annery silt loam; 0 to 3	percent slo	opes			NWI classific	cation: Not Mapp	oed	
Are climatic / hydrol	ogic conditions on	the site typical for this	time of yea	ar? Yes	X No	o (If no	o, explain in R	.emarks.)		
Are Vegetation	, Soil	, or Hydrology	signif	ficantly disturbed	d? A	Are "Normal Circu	mstances" pre	esent? Yes	x No)
Are Vegetation	, Soil	, or Hydrology	natur	ally problematic	? (li	lf needed, explain	any answers	in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach sit	te map s	howing sam	npling point	locations, tr	ransects, i	important feat	tures, etc.	
Hydrophytic Vege	etation Present?	Yes	No	x	Is the Sample	ed Area				
Hydric Soil Prese		Yes	No	Х	within a Wetl		Yes	No	x	
Wetland Hydrolog	gy Present?	Yes	No	Х	If yes, optiona	al Wetland Site ID) :			
HYDROLOGY										
Wetland Hydrolo	gy Indicators:						Secondary In	dicators (minimum	of two requir	ed)
_		e is required; check all t	hat apply)				-	il Cracks (B6)		
Surface Wat				Stained Leaves (B9)		_	atterns (B10)		
High Water		_	_	Fauna (B13)	•	_	-	Lines (B16)		
Saturation (A	43)	_	Marl De	eposits (B15)		_	Dry-Seasor	n Water Table (C2))	
Water Marks	s (B1)	_	Hydrog	en Sulfide Odor ((C1)	_	Crayfish Bu	irrows (C8)		
Sediment De	eposits (B2)	_	Oxidize	d Rhizospheres	on Living Roots	(C3)	Saturation \	Visible on Aerial Im	nagery (C9)	
Drift Deposit		_	_	ce of Reduced In	, ,	_	_	Stressed Plants (D	1)	
Algal Mat or	` ,	_	_	Iron Reduction in	•		•	c Position (D2)		
Iron Deposits	• •	<u> </u>		uck Surface (C7)		_	Shallow Aq			
l —	isible on Aerial Im	_	Other (I	Explain in Remar	rks)		-	raphic Relief (D4)		
	getated Concave S	Surface (B8)					FAC-Neutra	al Test (D5)		
Field Observatio		V No v	Danth	"la\.		İ				
Surface Water Pro Water Table Pres		Yes Nox Yes No _x				Wetland Hyd	ralagy Dress	ent? Yes	No	v
Saturation Preser		Yes No x				Welland Hyd	Tology i reso	III. 169	No _	
(includes capillary		165 140	Depui	(IIICIICa).	Ī	ı				
<u> </u>	<u> </u>	auge, monitoring well, a	aerial photo	s, previous inspe	ections), if availa	able:				
Damarka										
Remarks: No wetland hydrolo	gy observed									

Tree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Acer rubrum	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
Pinus sylvestris	40	Yes	UPL	That Are ODL, I ACW, OF I AC.	(A)
Fagus grandifolia	40	Yes	FACU	Total Number of Dominant Species Across All Strata:	6 (B)
4				Percent of Dominant Species	,
5				That Are OBL, FACW, or FAC:	33.3 (A/B)
6.					
7.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
		= Total Cover		OBL species 0	x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species 15	x 2 = <u>30</u>
1. Prunus serotina	30	Yes	FACU		x 3 = <u>90</u>
2. Fraxinus pennsylvanica	10	Yes	FACW		x 4 = 420
3					x 5 = 200 (A) 740 (B)
4				Goldmin Foldio.	(B)
5				Prevalence Index = B/A = 3.8	39
6.				Hydrophytic Vegetation Indicator	rs:
7				1 - Rapid Test for Hydrophytic	Vegetation
	40	= Total Cover		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹	
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations	
1. Rubus idaeus	35	Yes	FACU	data in Remarks or on a se	eparate sheet)
2. Dryopteris carthusiana	5	No	FACW	Problematic Hydrophytic Vege	etation ¹ (Explain)
3				¹ Indicators of hydric soil and wetlar	nd hydrology must
4				be present, unless disturbed or pro	blematic.
5				Definitions of Vegetation Strata:	
6				Tree – Woody plants 3 in. (7.6 cm)	or more in diameter
7				at breast height (DBH), regardless	of height.
8.				Sapling/shrub – Woody plants less	
9				and greater than or equal to 3.28 ft	
10				Herb – All herbaceous (non-woody size, and woody plants less than 3.	· ·
11				Woody vines – All woody vines gre	
12.				height.	ALC: 11411 3.20 11 111
	40	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)					
1					
2				Hydrophytic Vegetation	
3				Present? Yes	Nox
4					
	0	= Total Cove	r		
Remarks: (Include photo numbers here or on a separate sheet.)					

Sampling Point: DP-123

SOIL Sampling Point: DP-123 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Type¹ Color (moist) Loc² (inches) % Texture Remarks 10YR 4/3 80 10YR 5/8 10 MS Silty Clay Loam 0-20 7.5YR 4/4 MS Silty Clay Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes No x Depth (inches): Remarks: No hydric soils observed

19020 South Ripley Solar Checklist

19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105075
Survey Date	06/29/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	MS SPF
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-01
Latitude, Longitude	
Latitude	42.18425945
Longitude	-79.66192131
Accuracy	4.63 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Ag field and upland forest
Hydrologic Characteristics	
Perceptible Flow	false

Flow Regime		R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial R6 - Ephemeral
Flow Direction		East North Northeast Northwest South Southeast Southwest West
Surface Water Present	false	
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	0	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	1	
Average Bank Height (Feet)	1.5	
Stream Conditions		
In Stream Cover	X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration	X	Channel Armoring Channelization

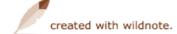
	Impoundment
Drainage Ditch	true

Photos and Notes

Photo up and downstream



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105077
Survey Date	06/29/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	MS SPF
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-03
Latitude, Longitude	
Latitude	42.18501395
Longitude	-79.66515912
Accuracy	4.72 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	ST-03
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Upland forest
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial



	X R6 - Ephemeral
Flow Direction	East North Northeast Northwest X South Southeast Southwest West
Surface Water Present	false
Surface Water Depth at Thalweg (Inches)	0
Stream (wetted) Width Range (Feet)	0
Geomorphic Characteristics	
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock
Bankfull Width range (Feet)	1-3
Average Bank Height (Feet)	3-5
Stream Conditions	
In Stream Cover	Coarse Woody Debris Deep Pools X Overhaning Vegetation X Undercut Banks
Channel Alteration	Channel Armoring X Channelization Impoundment
Drainage Ditch	true
Photos and Notes	

Photo up and downstream



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105076
Survey Date	06/29/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Sam Parker
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-2
Latitude, Longitude	
Latitude	42.1848592
Longitude	-79.66530797
Accuracy	4.75 m
NYSDEC Mapped Stream	No
	X No, but connects to mapped
	stream
	Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	N/A
Stream Name Current Weather	
	Heavy Rain
	Heavy Rain X None
	Heavy Rain X None Rain
Current Weather	Heavy Rain X None
	Heavy Rain X None Rain
Current Weather	Heavy Rain X None Rain Snow
Current Weather	Heavy Rain X None Rain Snow Heavy Rain
Current Weather	Heavy Rain X None Rain Snow Heavy Rain None X Rain
Current Weather	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow
Current Weather	Heavy Rain X None Rain Snow Heavy Rain None X Rain
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown
Current Weather Weather in Past 48 Hours	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown Forested Upland
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown Forested Upland true R1 - Tidal
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown Forested Upland true R1 - Tidal R2 - Lower Perennial
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown Forested Upland true R1 - Tidal R2 - Lower Perennial X R3 - Upper Perennial
Current Weather Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow	Heavy Rain X None Rain Snow Heavy Rain None X Rain Snow Unknown Forested Upland true R1 - Tidal R2 - Lower Perennial



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	2	
Stream (wetted) Width Range (Feet)	1-2	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X 	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	2-8	
Average Bank Height (Feet)	1-2	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch	false	
Photos and Notos		
Photos and Notes		

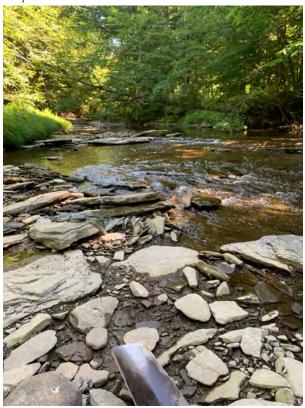
Photo up and downstream



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105074
Survey Date	06/29/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Sam Parker
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-4
Latitude, Longitude	
Latitude	42.18424054
Longitude	-79.66896272
Accuracy	4.67 m
NYSDEC Mapped Stream	No No, but connects to mapped stream X Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Forested upland
Hydrologic Characteristics	
Parcontible Flow	truo
Perceptible Flow Flow Regime	R1 - Tidal X R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent



	R5 - Unkown Perennial
	R6 - Ephemeral
Flow Direction	East North X Northeast Northwest South Southeast Southwest West
Surface Water Present	true
Surface Water Depth at Thalweg (Inches)	6-18
Stream (wetted) Width Range (Feet)	10-20 ft (double check on arc)
Geomorphic Characteristics	
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder X Bedrock
Bankfull Width range (Feet)	20-30
Average Bank Height (Feet)	3
Stream Conditions	
In Stream Cover	X Coarse Woody DebrisX Deep PoolsX Overhaning VegetationX Undercut Banks
Channel Alteration	Channel Armoring Channelization Impoundment
Drainage Ditch	
Photos and Notes	
THOCOS AND NOTES	



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105071
Survey Date	06/30/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Sam Parker
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-8
Latitude, Longitude	
Latitude	42.18513042
Longitude	-79.6724632
Accuracy	4.72 m
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Forested uplands
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal R2 - Lower Perennial X R3 - Upper Perennial R4 - Intermittent



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present Surface Water Depth at Thalweg (Inches)	X	East North Northeast Northwest South Southeast Southwest West
Stream (wetted) Width Range (Feet)	2-5	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	5-10	
Average Bank Height (Feet)	2-3	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		
Photos and Notes		



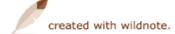
19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	105070
Survey Date	06/30/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Sam Parker
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-9
Latitude, Longitude	
Latitude	42.18434984
Longitude	-79.67089026
Accuracy	4.7 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Deciduous forest uplands
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent R5 - Unkown Perennial



		R6 - Ephemeral
Flow Direction	X X 	East North Northeast Northwest South Southeast Southwest West
Surface Water Present	true	
Surface Water Depth at Thalweg (Inches)	0-1	
Stream (wetted) Width Range (Feet)	4	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	4-8	
Average Bank Height (Feet)	1	
Stream Conditions		
Sciediff Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		
r notos and notes		



Project 19020 South Ripley Solar ID 105072 Survey Date 0701/2020 User Matt Spadoni Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni Town South Ripley County Chautaqua County State New York Stream Delineation ID \$7.11 Latitude 42.18105465 Longitude 79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Classification Class C(T) Stream Name NA NYSDEC mapped Classification Class C(T) Stream Name NA None Rain Stream Name NA Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Wannel Rain Snow Unknown Adjacent Ecological Communities Forested upland Hydrologic Characteristi	19020 South Ripley Stream Data Form 1	
Survey Date 07/01/2020 User Matt Spadoni Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni Town South Ripley County Chautaqua County State New York Stream Delineation ID ST-11 Latitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Stream No NYSDEC mapped Classification Class C(T) Stream Name N/A Current Weather Heavy Rain Washin None Rain Snow Weather in Past 48 Hours Heavy Rain Washin None Rain Snow Unknown None Rain None Rain None Rain None Rain None Unknown None <td< td=""><td>Project</td><td>19020 South Ripley Solar</td></td<>	Project	19020 South Ripley Solar
User Matt Spadoni Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni Town South Ripley County Chautaqua County State New York Stream Delineation ID \$7-11 Latitude, Longitude \$7-11 Longitude \$7-9,66642014 Longitude \$1.51.5 m Longitude Accuracy \$1.51.5 m NYSDEC Mapped Stream \$No NYSDEC Mapped Stream \$No NYSDEC Mapped Classification Class CTT Stream Name N/A Current Weather \$None Rain \$None Rain \$None Rain \$None Rain \$None Rain \$None Rain \$None Rain \$None Rain \$None Rain \$None \$None \$None \$None \$None \$None	ID	105072
Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni Town South Ripley County Chautaqua County State New York Stream Delineation ID ST-1 Latitude, Longitude 42.18105465 Longitude 79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Stream No NYSDEC Mapped Classification Class CIT) Stream Name N/A Current Weather Heavy Rain Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow Flow Perennial Roy Lower Perennial R3 - Upper Perennial	Survey Date	07/01/2020
Project Name South Ripley Investigator(s) Matt Spadoni Town South Ripley County Chautaqua County State New York Stream Delineation ID ST-11 Latitude, Longitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Stream Class C(T) Stream Name N/A Current Weather Heavy Rain Washer in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow Forested upland Forested upland Forested upland Forested upland Forested upland Forested upland Forested upland Forested upland Forested upland Forested upland<	User	Matt Spadoni
Investigator(s)	Project Number	19020
Town South Ripley County Chautaqua County State New York Stream Delineation ID T-11 Latitude, Longitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No but connects to mapped stream where a stream	Project Name	South Ripley
County Chautaqua County State New York Stream Delineation ID ST-11 Latitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Classification Class C(T) Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow true Flow Regime R1-Tidal R3-Upper Perennial R3-Upper Perennial	Investigator(s)	Matt Spadoni
State New York Stream Delineation ID ST-11 Latitude, Longitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No NYSDEC Mapped Stream No NYSDEC Mapped Classification Class C(T) Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours None Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow true Flow Regime R1 - Tidal R2 - Lower Perennial R2 - Lower Perennial R3 - Upper Perennial	Town	South Ripley
Stream Delineation ID Latitude, Longitude Latitude	County	Chautaqua County
Latitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream No	State	New York
Latitude 42.18105465 Longitude -79.66642014 Accuracy 15.15 m NYSDEC Mapped Stream	Stream Delineation ID	ST-11
Longitude Accuracy 15.15 m NYSDEC Mapped Stream NYSDEC mapped Classification Stream Name Current Weather Weather in Past 48 Hours Weather in Past 48 Hours Mydrologic Characteristics Perceptible Flow Flow Regime Rain - 79,66642014 15.15 m No No No No, but connects to mapped stream N/A Class C(T) Heavy Rain No No Rain Snow Unknown Forested upland R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial	Latitude, Longitude	
Accuracy NYSDEC Mapped Stream NYSDEC mapped Classification Stream Name Current Weather Weather in Past 48 Hours Weather in Past 48 Hours Adjacent Ecological Communities Perceptible Flow Perceptible Flow Flow Regime NIST Mone Rain Snow Unknown True R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial	Latitude	42.18105465
NYSDEC Mapped Stream \Bigci No, but connects to mapped stream stream yees stream yees \Bigci Yes NYSDEC mapped Classification Class C(T) Stream Name N/A Current Weather \Bigci Heavy Rain X None Rain Snow Weather in Past 48 Hours \Bigci Anne Rain Snow Weather in Past 48 Hours Adjacent Ecological Communities Forest upland Hydrologic Characteristics Ferceptible Flow Freeptible Flow Freeptible Flow Regime \Bigci R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Longitude	-79.66642014
NYSDEC mapped Classification Class C(T) Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Adjacent Ecological Communities Heavy Rain None Rain Rain Rain Rain Rain Rain Rain Rain	Accuracy	15.15 m
Stream Name Current Weather Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	NYSDEC Mapped Stream	X No, but connects to mapped stream
Stream Name Current Weather Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	NYSDEC mapped Classification	Class C(T)
Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Forested upland Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial		
Heavy Rain X None Rain Snow Unknown	Current Weather	X None Rain
Hydrologic Characteristics Perceptible Flow true Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Weather in Past 48 Hours	X None Rain Snow
Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Adjacent Ecological Communities	Forested upland
Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Hydrologic Characteristics	
R2 - Lower Perennial R3 - Upper Perennial	Perceptible Flow	true
	Flow Regime	R2 - Lower Perennial R3 - Upper Perennial



Flow Direction		R5 - Unkown Perennial R6 - Ephemeral East North Northeast Northwest South Southeast Southwest
	X	West
Surface Water Present	true	
Surface Water Depth at Thalweg (Inches)	0-4	
Stream (wetted) Width Range (Feet)	0-4	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	2-10	
Average Bank Height (Feet)	1-4	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration Drainage Ditch		Channel Armoring Channelization Impoundment
Photos and Notes		
r Hotos aliu Notes		

Photo up and downstream



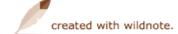
Project 19020 South Ripley Solar 10	19020 South Ripley Stream Data Form 1	
Survey Date 07/06/2020 User Matt Spadoni Project Number 19020 Project Number South Ripley Investigator(s) Matt Spadoni and Sam Parker Town South Ripley County Chautaqua County State New York Stream Delineation ID ST-12 Latitude 42.18385293 Longitude -79.69127663 Accuracy 4.59 m NYSDEC Mapped Stream No NYSDEC Mapped Classification Class C Stream Name N/A Current Weather Heavy Rain Weather in Past 48 Hours Heavy Rain None Rain None Snow None Snow Indicate Ecological Communities Forested wetlands and uplands Hydrologic Characteristics R1 - Tidal Perceptible Flow R1 - Tidal R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial	Project	19020 South Ripley Solar
User	ID	105073
Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni and Sam Parker Town South Ripley County Chautaqua County State New York Stream Delineation ID Striz Latitude, Longitude Latitude 42.18385293 Longitude 79.69127663 Accuracy 4.59 m	Survey Date	07/06/2020
Project Name Investigator(s) I	User	Matt Spadoni
Investigator(s) Matt Spadoni and Sam Parker Town South Ripley County Chautaqua County State New York Stream Delineation ID ST-12 Latitude, Longitude Latitude 42,18385293 Longitude -79,69127663 Accuracy 4,59 m NYSDEC Mapped Stream No Lass C Stream Name N/A Current Weather Heavy Rain Rain Snow Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Rain Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime Rai - Tidal Ra - Lower Perennial Rai - Upper Perennial Rai - Upper Perennial	Project Number	19020
Town South Ripley County Chautaqua County State New York Stream Delineation ID \$1-12 Latitude, Longitude 42.18385293 Longitude 49.6917663 Accuracy 4.59 m NYSDEC Mapped Stream No, but connects to mapped stream NYSDEC mapped Classification Class C Stream Name N/A Current Weather Heavy Rain Rain 5now None Rain Rain 5now None Rain None Rain None Rain None Rain None None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain	Project Name	South Ripley
County Chautaqua County State New York Stream Delineation ID \$71-2 Latitude 42.18385293 Longitude -79.69127663 Accuracy 4.59 m NYSDEC Mapped Stream No NYSDEC Mapped Stream Class C Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain Weather in Past 48 Hours Heavy Rain Adjacent Ecological Communities Fonow Hydrologic Characteristics Perceptible Flow R1 - Tidal Flow Regime R1 - Tidal R2 - Lower Perennial R2 - Lower Perennial	Investigator(s)	Matt Spadoni and Sam Parker
State New York Stream Delineation ID ST-12 Latitude, Longitude 42.18385293 Longitude -79.69127663 Accuracy 4.59 m NYSDEC Mapped Stream No but connects to mapped stream NYSDEC mapped Classification Class C Stream Name N/A Current Weather Heavy Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain None Rain Rain None Rain Rain None Rain Rain None Rain Rain Rain Rain Rain Rain Rain Rain	Town	South Ripley
Stream Delineation ID Latitude, Longitude Latitude	County	Chautaqua County
Latitude, Longitude Latitude	State	New York
Latitude 42.18385293 Longitude -79.69127663 Accuracy 4.59 m NYSDEC Mapped Stream No XYSDEC Mapped Classification Class ⊂ Stream Name N/A Current Weather Heavy Rain X None Rain 5 now None X Rain 5 now Unknown None Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Stream Delineation ID	ST-12
Longitude .79,69127663 Accuracy 4.59 m NYSDEC Mapped Stream No No, but connects to mapped stream Yes NYSDEC mapped Classification Class C Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown None Rain Snow Unknown Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial	Latitude, Longitude	
Accuracy NYSDEC Mapped Stream No No No, but connects to mapped stream Yes NYA Current Weather Unrent Weather Weather in Past 48 Hours Weather in Past 48 Hours Adjacent Ecological Communities Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial	Latitude	42.18385293
NYSDEC Mapped Stream	Longitude	-79.69127663
NYSDEC mapped Classification Class C Stream Name N/A Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Heavy Rain None Rain Snow Heavy Rain None Rain Snow Heavy Rain None Rain Snow Rain Rain Snow Heavy Rain None Rain Rain Snow Rain Snow Unknown Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Accuracy	4.59 m
Stream Name Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	NYSDEC Mapped Stream	X No, but connects to mapped stream
Current Weather Heavy Rain None Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	NYSDEC mapped Classification	Class C
Heavy Rain X None Rain Snow	Stream Name	N/A
Weather in Past 48 Hours Heavy Rain None X Rain Snow Unknown Adjacent Ecological Communities Forested wetlands and uplands Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Current Weather	
Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Current Weather	X None Rain
Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial		X None Rain Snow Heavy Rain None X Rain Snow
Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Weather in Past 48 Hours	X None Rain Snow Heavy Rain None X Rain Snow Unknown
Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial	Weather in Past 48 Hours Adjacent Ecological Communities	X None Rain Snow Heavy Rain None X Rain Snow Unknown
R1 - IIdal R2 - Lower Perennial R3 - Upper Perennial	Weather in Past 48 Hours Adjacent Ecological Communities	X None Rain Snow Heavy Rain None X Rain Snow Unknown
	Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow	X None Rain Snow Heavy Rain None X Rain Snow Unknown



		R5 - Unkown Perennial R6 - Ephemeral
Flow Direction Surface Water Present	X	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	0	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	1-8	
Average Bank Height (Feet)	1	
Stream Conditions		
In Stream Cover	X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106799
Survey Date	07/08/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Sam Parker
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-16
Latitude, Longitude	
Latitude	42.1983555
Longitude	-79.75934455
Accuracy	4.73 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
Adjacent Ecological Communities	Cow grazing pasture
Hydrologic Characteristics	
Perceptible Flow	
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial

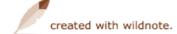


	X R6 - Ephemeral
Flow Direction	East North Northeast Northwest South Southeast Southwest X West
Surface Water Present	
Surface Water Depth at Thalweg (Inches) Stream (wetted) Width Range (Feet)	0
Geomorphic Characteristics	
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	Silt/Clay (No grit) X Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	0-1
Average Bank Height (Feet)	1-2
Stream Conditions	
In Stream Cover	Coarse Woody Debris Deep Pools X Overhaning Vegetation Undercut Banks
Channel Alteration	X Channel ArmoringX ChannelizationImpoundment
Drainage Ditch	
Photos and Notes	



Notes Very disturbed ag ditch

19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106851
Survey Date	07/09/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	MS TC
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST18
Latitude, Longitude	
Latitude	42.18534029
Longitude	-79.67103375
Accuracy	7.79 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
Adjacent Ecological Communities	Forest, hayfield
Hydrologic Characteristics	
Perceptible Flow	false
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial



	X	R6 - Ephemeral
Flow Direction		East North Northeast Northwest South Southeast Southwest West
Surface Water Present	false	
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	3	
Geomorphic Characteristics		
Stream Gradient Substrate Bankfull Width range (Feet) Average Bank Height (Feet)	X X	Gentle (0-5%) Moderate (6-11%) Steep (>12%) Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Stream Conditions		
In Stream Cover	X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration	X	Channel Armoring Channelization Impoundment
Drainage Ditch	true	
Photos and Notes		



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106849
Survey Date	07/09/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	MS TC
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST19
Latitude, Longitude	
Latitude	42.18489154
Longitude	-79.66818194
Accuracy	0.68 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
Adjacent Ecological Communities	Forest, hayfield
Hydrologic Characteristics	
Perceptible Flow	false
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial

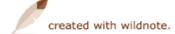


	X R6 - Ephemeral
Flow Direction	East North Northeast Northwest South Southeast Southwest X West
Surface Water Present	false
Surface Water Depth at Thalweg (Inches)	0
Stream (wetted) Width Range (Feet)	2
Geomorphic Characteristics	
Stream Gradient Substrate Bankfull Width range (Feet)	X Gentle (0-5%) Moderate (6-11%) Steep (>12%) Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock 2-3
Average Bank Height (Feet)	8 inch
Stream Conditions	
In Stream Cover	X Coarse Woody DebrisDeep PoolsX Overhaning VegetationUndercut Banks
Channel Alteration	Channel Armoring X Channelization Impoundment
Drainage Ditch	true
Photos and Notes	





19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106847
Survey Date	07/09/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	MS TC
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST20
Latitude, Longitude	
Latitude	42.19069694
Longitude	-79.66575624
Accuracy	0.75 m
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	C(t)
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
Adjacent Ecological Communities	Forest
Hydrologic Characteristics	
Perceptible Flow	
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent

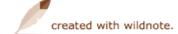


		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X X C	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	4-6	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	6-10	
Average Bank Height (Feet)	1.5	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration	X	Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		
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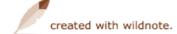
19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106843
Survey Date	07/10/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Tiffany Clay
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-21
Latitude, Longitude	
Latitude	42.18596831
Longitude	-79.67492601
Accuracy	1.1 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Upland forest
Hydrologic Characteristics	
Perceptible Flow	
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial



	X	R6 - Ephemeral
Flow Direction	X 	East North Northeast Northwest South Southeast Southwest West
Surface Water Present		
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	0	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	1-3	
Average Bank Height (Feet)	1-3	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch	false	
Photos and Notes		



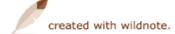
19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106842
Survey Date	07/10/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Tiffany Clay
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-6-2
Latitude, Longitude	
Latitude	42.18430285
Longitude	-79.67543495
Accuracy	5.14 m
NYSDEC Mapped Stream	No
	No, but connects to mapped
	stream
	X Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	20 Mile
Current Weather	Heavy Rain
	X None
	Rain
Weeklery's Book 40 Herris	Snow
Weather in Past 48 Hours	Heavy Rain
	None
	X Rain
	Snow
	Unknown
Adjacent Ecological Communities	Forested upland
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal
	R2 - Lower Perennial
	R3 - Upper Perennial
	X R4 - Intermittent



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	1	
Stream (wetted) Width Range (Feet)	2-4	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	3-10	
Average Bank Height (Feet)	1-4	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Dhotos and Notes		
Photos and Notes		



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106840
Survey Date	07/13/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni & Tiffany Clay
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-20
Latitude, Longitude	
Latitude	42.19262176
Longitude	-79.66948549
Accuracy	2.69 m
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C(T)
	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Upland forest
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal R2 - Lower Perennial X R3 - Upper Perennial R4 - Intermittent



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	6	
Stream (wetted) Width Range (Feet)	2-5	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	8	
Average Bank Height (Feet)	1	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch	false	
Photos and Notes		
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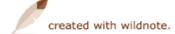
19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106839
Survey Date	07/13/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-25
Latitude, Longitude	
Latitude	42.191313
Longitude	-79.672563
Accuracy	m
NYSDEC Mapped Stream	No
	X No, but connects to mapped
	stream
	Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	N/A
Current Weather	Heavy Rain
	X None
	Rain
WI	Snow
Weather in Past 48 Hours	Heavy Rain
	None
	X Rain
	Snow
	Unknown
Adjacent Ecological Communities	Upland forest
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal
	R2 - Lower Perennial
	R2 - Lower Perennial



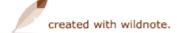
		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	2	
Stream (wetted) Width Range (Feet)	1	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	2	
Average Bank Height (Feet)	3	
Stream Conditions		
In Stream Cover	X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch	false	
Photos and Notes		



19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	106834
Survey Date	07/13/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-29
Latitude, Longitude	
Latitude	42.18881302
Longitude	-79.67285918
Accuracy	12.18 m
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C(T)
Stream Name	N/A
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Upland forest
Hydrologic Characteristics	
Perceptible Flow	true
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present Surface Water Depth at Thalweg (Inches)	X X	East North Northeast Northwest South Southeast Southwest West
Stream (wetted) Width Range (Feet)	3-4	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	4	
Average Bank Height (Feet)	2	
Stream Conditions		
In Stream Cover	X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		
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19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	106714
Survey Date	07/13/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	JM TC
Stream Delineation ID	ST22
Latitude, Longitude	
Latitude	42.19582385
Longitude	-79.66442895
Accuracy	29.72 m
Current Precipitation Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream X Yes
NYSDEC mapped Classification	C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	4
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

		Bedrock
Range of Bankfull width for stream reach	3-25	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
		Weak (1)
	X	Moderate (2) Strong (3)
Sinuosity of channel along thalweg		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
In Channel Structures		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Particle Size of Stream Substrate		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Active/Relic Floodplain		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Depositional Bars or Benches		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
	\Box	Moderate (2)
Are Headcuts present		Strong (3)
		Absent (0)
		Weak (1)
	X	Moderate (2) Strong (3)

Grade Control		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Natural Valley		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel		No (0) Yes (3)
Hydrology		
Presence of Baseflow		Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria		Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table		No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Algae		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	43.75
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

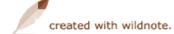
Photos and Notes

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	106715
Survey Date	07/13/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	JM TC
Stream Delineation ID	ST23
Latitude, Longitude	
Latitude	42.19517903
Longitude	-79.66843259
Accuracy	10.0 m
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0.5
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder



	Bedrock
Range of Bankfull width for stream reach	1-4
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) X Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) Weak (1) X Moderate (2) Strong (3)

Grade Control	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
Natural Valley	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Second or Greater Order Channel	X No (0) Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) X Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) Weak (1) X Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Щ	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	30.75
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photos and Notes

Photo up and downstream





Notes

Northern section of ST23 after culvert

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	106778
Survey Date	07/13/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM TC
Stream Delineation ID	ST30
Latitude, Longitude	
Latitude	42.19390088
Longitude	-79.6632253
Accuracy	0.77 m
Current Precipitation	Heavy Rain X None Rain
Precipitation in Past 48 Hours	Snow Heavy Rain None
	X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	3
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder Bedrock

Range of Bankfull width for stream reach	1-6	
Geomorphology		
Continuity of channel bed and bank	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg	X	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate		Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X 	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control		Absent (0)

		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Natural Valley		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
		163 (3)
Hydrology		
Presence of Baseflow		
		Absent (0)
	X	Weak (1)
		Moderate (2)
Iron Oxidizing Bacteria		Strong (3)
TOTI Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
	X	Weak (1)
	Щ	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table	X	No (0)
		Yes (3)
		(-)
Biology		
Fibrous Roots in Streambed	X	Absent (3)
	٠٠٠	

		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	23.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	106779
Survey Date	07/13/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM TC
Stream Delineation ID	ST23
Latitude, Longitude	
Latitude	42.19451434
Longitude	-79.66709561
Accuracy	0.98 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch Surface Water Depth at Thalweg (Inches)	X No Yes
Stream Gradient	
	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder



		Bedrock
Range of Bankfull width for stream reach	1-4	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	Ш	Weak (1)
	X	Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Active/Relic Floodplain		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Depositional Bars or Benches	X	Absent (0)
	Ш	Weak (1)
	Ш	Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
	Щ	Moderate (2)
		Strong (3)
Are Headcuts present		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)

Grade Control Natural Valley	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5) Absent (0)
	X Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X No (0) Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) X Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) Weak (1) X Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	
2.6.76)	

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Щ	Weak (1)
	\sqcup	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ц	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ц	Weak (0.5)
	Щ	Moderate (1)
	Ш	Strong (1.5)
Algae	X	Absent (0)
	\sqcup	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	19.75
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109913
Survey Date	07/13/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	JM TC
Stream Delineation ID	ST31
Latitude, Longitude	
Latitude	42.19505717
Longitude	-79.66365438
Accuracy	10.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder Bedrock



Range of Bankfull width for stream reach	2-10
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	X Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Natural Valley		Absent (0)
	$\overline{\Box}$	Weak (0.5)
	$\overline{\Box}$	Moderate (1)
	X	Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
		165 (5)
Hydrology		
Presence of Baseflow		41
Treserice of Buseriow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
	$\overline{\Box}$	Weak (1)
	X	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
	H	Weak (0.5)
	Н	Moderate (1)
Organic Debris Lines or Piles		Strong (1.5)
Organic Debits Lines of Files	Н	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
	X	Strong (1.5)
Soil-based evidence of high water table	X	No (0)
		Yes (3)
Biology		
Fibrous Roots in Streambed	X	Absent (3)

Moderate (1) Strong (0)			Weak (2)
Strong (0) Rooted Upland Plants in Streambed X Absent (3) Weak (2) Moderate (1) Strong (0) Weak (1) Weak (1)			
Rooted Upland Plants in Streambed X Absent (3) Weak (2) Moderate (1) Strong (0)		$\overline{\Box}$	
Weak (2)	Rooted Upland Plants in Streambed		
Aquatic Macroinvertebrates Aquatic Macroinvertebrates Aquatic Mollusks Aquatic Mollusks Aquatic Mollusks Aquatic Mollusks Aquatic Mollusks Aquatic Mollusks Appear (1) Weak (1) Moderate (2) Strong (3) Fish Xquatic Mollusks Extrong (3) Fish Xquatic Mollusks Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Crayfish Xquatic Mollusks Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Amphibians Appear (2) Strong (3) Fish Xquatic Mollusks Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Fix (0.75) OBL (1.5) OBL (1.5) Other (0)			
Strong (0) Aquatic Macroinvertebrates X Absent (0) Weak (1) Moderate (2) Strong (3) Aquatic Mollusks X Absent (0) Weak (1) Moderate (2) Strong (3) Fish Weak (0.5) Moderate (1) Strong (1.5) Crayfish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1.5) M		H	
Aquatic Macroinvertebrates X Absent (0)		H	
Weak (1) Moderate (2) Strong (3) Aquatic Mollusks X Absent (0) Weak (1) Moderate (2) Strong (3) Strong (3) Strong (3) Strong (3) Strong (3) Strong (3) Strong (3) Strong (3) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Strong (1.5) Moderate (1) Strong (1.5) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Moderat	Aquatic Macroinvertebrates		
Moderate (2) Strong (3) Appent (0) Weak (1) Moderate (2) Strong (3) Fish	Aquatic Macronivertebrates	X	
Aquatic Mollusks Aquatic Mollusks X Absent (0) Weak (1) Moderate (2) Strong (3) Fish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Crayfish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
Aquatic Mollusks X Absent (0) Weak (1) Moderate (2) Strong (3)		\vdash	
Weak (1) Moderate (2) Strong (3)		Ш	Strong (3)
Moderate (2) Strong (3)	Aquatic Mollusks	X	Absent (0)
Strong (3) X		\sqcup	Weak (1)
X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)		\sqcup	Moderate (2)
Moderate (1) Strong (1.5)			Strong (3)
Moderate (1) Strong (1.5)	Fish	X	Absent (0)
Strong (1.5) Crayfish			Weak (0.5)
Crayfish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			Moderate (1)
Weak (0.5) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			Strong (1.5)
Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) Moderate (1) Strong (1.5) OBL (1.5) OBL (1.5) X Other (0)	Crayfish	X	Absent (0)
Strong (1.5)			Weak (0.5)
Amphibians X Absent (0)			Moderate (1)
Weak (0.5) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			Strong (1.5)
Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)	Amphibians	X	Absent (0)
Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			Weak (0.5)
Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)	Algae	X	
Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
Wetland Plants in Streambed FACW (0.75) OBL (1.5) X Other (0)			
OBL (1.5) X Other (0)	Wetland Plants in Streambed		
X Other (0)		\Box	
		X	
Stream Type Determination		لنت	(-)
	Stream Type Determination		

Total Score	18
Stream Determination	Ephemeral (<18) X Intermittent (>18)
	Perennial (>29)

Photo up and downstream







Notes

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109936
Survey Date	07/13/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	JM TC
Stream Delineation ID	ST25
Latitude, Longitude	
Latitude	42.19508628
Longitude	-79.67039496
Accuracy	10.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream X Yes
NYSDEC mapped Classification	C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	6
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

	☐ Bedrock
Range of Bankfull width for stream reach	20-40
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3)
In Channel Structures	Absent (0) Weak (1) Moderate (2) X Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) Weak (1) Moderate (2) X Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) Weak (1) X Moderate (2) Strong (3)

Grade Control	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Natural Valley	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Second or Greater Order Channel	No (0) X Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) Moderate (2) X Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Organic Debris Lines or Piles	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
	Ш	Moderate (2)
		Strong (3)
Fish		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Crayfish		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Ш	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed		FACW (0.75)
		OBL (1.5)
	X	Other (0)

Stream Type Determination	
Total Score	48
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream







Project 1902 South Ripley Solar 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175 10 109175	19020 South Ripley Stream Data Form 1	
Survey Date 07/16/2020 User Matt Spadoni Project Number 19020 Project Name South Ripley Investigator(s) Matt Spadoni, Joe Gallo Town South Ripley County Chautaqua County State New York Strage New York Stragen Delineation ID \$1-36 Latitude, Longitude 42.17968452 Longitude 42.17968452 Longitude -79.70726081 Accuracy 0.23 m NYSDEC Mapped Stream X No No, but connects to mapp stream X No No, but connects to mapp stream No No Vestern Weather Heavy Rain None X Rain So Stream Name No Heavy Rain Weather in Past 48 Hours Heavy Rain None X None Rain X None No X None No X <	Project	19020 South Ripley Solar
User Mante 19020 Project Number 19020 Project Name South Ripley South	ID	109175
Project Name	Survey Date	07/16/2020
Project Name Investigator(s) I	User	Matt Spadoni
Investigator(s) Town South Ripley County Chautaqua County State Rew York Stream Delineation ID ST-36 Latitude, Longitude Latitude Latitude Accuracy NYSDEC Mapped Stream NYSDEC Mapped Stream NYA Stream Name Current Weather Weather in Past 48 Hours Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow Flow Regime Rai - Tidal Ra - Lower Perennial	Project Number	19020
Town County Chautaqua County State New York Stream Delineation ID ST-36 Latitude, Longitude Latitude 42.17968452 Longitude 79.70726081 Accuracy 0.23 m NYSDEC Mapped Stream X No Stream None Tyes Stream Name N/A Current Weather Heavy Rain None X Rain Snow Weather in Past 48 Hours Heavy Rain X None Rain Rain Snow Weather Ecological Communities Upland forest Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent	Project Name	South Ripley
County State New York Stream Delineation ID ST-36 Latitude, Longitude Latitude Longitude Accuracy NYSDEC Mapped Stream NYSDEC Mapped Stream NYA Stream Name Current Weather Weather in Past 48 Hours Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow Flow Regime Rai - Tidal R	Investigator(s)	Matt Spadoni, Joe Gallo
State New York Stream Delineation ID ST-36 Latitude, Longitude Latitude 42.17968452 Longitude 79.70726081 Accuracy 0.23 m NYSDEC Mapped Stream NYSDEC Mapped Stream NYA Current Weather Weather in Past 48 Hours Weather in Past 48 Hours Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow Flow Regime Rai - Tidal Rai - Tidal Rai - Rai - Tidal Rai - Rai - Tidal Rai - Rai - Tidal Rai - Tidal Rai - Rai - Tidal Rai - Rai - Tidal Rai - Rai - Tidal	Town	South Ripley
Stream Delineation ID Latitude, Longitude Latitude	County	Chautaqua County
Latitude	State	New York
Latitude 42.17968452 Longitude -79.70726081 Accuracy 0.23 m NYSDEC Mapped Stream X No	Stream Delineation ID	ST-36
Longitude -79.70726081 Accuracy 0.23 m NYSDEC Mapped Stream X	Latitude, Longitude	
Accuracy NYSDEC Mapped Stream X No No, but connects to mapper stream Yes Stream Name	Latitude	42.17968452
NYSDEC Mapped Stream X No No, but connects to mapper stream Yes Yes Yes Heavy Rain None X Rain Snow None X Rain None X Rain None X Rain None None None Rain None	Longitude	-79.70726081
Stream Name Ves	Accuracy	0.23 m
Current Weather Heavy Rain None X Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Upland forest Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial R3 - Upper Perennial R4 - Intermittent	NYSDEC Mapped Stream	No, but connects to mapped stream
Heavy Rain None X Rain Snow Weather in Past 48 Hours Heavy Rain None Rain Snow Unknown Adjacent Ecological Communities Upland forest Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R3 - Upper Perennial R4 - Intermittent	Stream Name	N/A
Heavy Rain X None Rain Snow Unknown Adjacent Ecological Communities Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent	Current Weather	None X Rain
Hydrologic Characteristics Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent		X None Rain Snow Unknown
Perceptible Flow Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent	Adjacent Ecological Communities	Upland forest
Flow Regime R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent	Hydrologic Characteristics	
R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent	Perceptible Flow	
	Flow Regime	R2 - Lower Perennial R3 - Upper Perennial X R4 - Intermittent



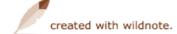
		R6 - Ephemeral
Flow Direction		East North Northeast Northwest South Southeast Southwest West
Surface Water Present	true	
Surface Water Depth at Thalweg (Inches)	0-3	
Stream (wetted) Width Range (Feet)	3-6	
Cooperation Characteristics		
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	3-6	
Average Bank Height (Feet)	1-2	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration	X	Channel Armoring Channelization Impoundment
Drainage Ditch	true	
Distance d Nation		
Photos and Notes		

Photo up and downstream





19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	109158
Survey Date	07/17/2020
User	Matt Spadoni
Project Number	19020
Project Name	South Ripley
Investigator(s)	Matt Spadoni, Joe Gallo
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST37
Latitude, Longitude	
Latitude	42.18861839
Longitude	-79.71786694
Accuracy	0.64 m
NYSDEC Mapped Stream	No
	X No, but connects to mapped
	stream
	Yes
NYSDEC mapped Classification	Class C
Stream Name	Stream 37
Current Weather	Heavy Rain
	X None
	Rain
W. d. 1 B. 440 H	Snow
Weather in Past 48 Hours	X Heavy Rain
	None
	Rain
	Snow
	Unknown
Adjacent Ecological Communities	Forest upland and agriculture
Hydrologic Characteristics	
Degraphible Flour	A
Perceptible Flow	true
Flow Regime	R1 - Tidal
	R2 - Lower Perennial
	R3 - Upper Perennial
	X R4 - Intermittent



		R5 - Unkown Perennial
		R6 - Ephemeral
Flow Direction Surface Water Present	X X D D true	East North Northeast Northwest South Southeast Southwest West
Surface Water Depth at Thalweg (Inches)	1-2	
Stream (wetted) Width Range (Feet)	1-3	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X X —	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	6-10	
Average Bank Height (Feet)	0-1	
Stream Conditions		
In Stream Cover	X X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch		
Photos and Notes		

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109146
Survey Date	07/20/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM SPF
Stream Delineation ID	ST-38
Latitude, Longitude	
Latitude	42.19581481
Longitude	-79.71475957
Accuracy	5.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None Rain Snow X Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch Surface Water Depth at Thalweg (Inches)	X No Yes
Stream Gradient	X Gentle (0-5%)
	Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder

		Bedrock
Range of Bankfull width for stream reach	1-2	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
	П	Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		
	H	Absent (0)
	X	Weak (1) Moderate (2)
Active/Relic Floodplain		Strong (3)
Active/Relic Floodplatti	X	Absent (0)
		Weak (1)
		Moderate (2)
Day and Carried Days and Days do a		Strong (3)
Depositional Bars or Benches	X	Absent (0)
		Weak (1)
	Щ	Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
	Ш	Weak (1)
	Ц	Moderate (2)
		Strong (3)
Are Headcuts present	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)

Grade Control Natural Valley	X D	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0)
	X	Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X	No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X 	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3) Weak (2) Moderate (1) Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3) Weak (2) Moderate (1) Strong (0)
Aquatic Macroinvertebrates	X 	Absent (0) Weak (1) Moderate (2) Strong (3)
Aquatic Mollusks	X 	Absent (0) Weak (1) Moderate (2) Strong (3)
Fish	X 	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Crayfish	X 	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Amphibians	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Algae	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75) OBL (1.5) Other (0)

Stream Type Determination	
Total Score	13.25
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109171
Survey Date	07/20/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Josh Marchner
Stream Delineation ID	ST-40
Latitude, Longitude	
Latitude	42.19714385
Longitude	-79.71694577
Accuracy	2.69 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	18
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder

Range of Bankfull width for stream reach 2-8			Bedrock
Continuity of channel bed and bank Absent (0) Weak (1) Moderate (2) X Strong (3) Sinuosity of channel along thalweg Sinuosity of channel along thalweg In Channel Structures In Channel Structures In Channel Structures In Channel Structures In Moderate (2) X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodp	Range of Bankfull width for stream reach	2-8	
Weak (1) Moderate (2) X Strong (3) Sinuosity of channel along thalweg Absent (0) Weak (1) Moderate (2) X Strong (3) In Channel Structures In Channel Structures In Channel Structures Absent (0) Weak (1) Moderate (2) X Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Active/Relic Floodplain Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) X Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Absent (0) X Weak (1) Moderate (2) X Strong (3)	Geomorphology		
Moderate (2) X Strong (3) Strong (3) Strong (3) Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) X Strong (3) Moderate (2) Strong (3) Moderate (2) Strong (3) Moderate (2) Strong (3) Moderate (2) Strong (3) Moderate (2) Strong (3) Moderate (2)	Continuity of channel bed and bank	X	Weak (1) Moderate (2)
Assent (0) Weak (1) Moderate (2) X Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Depositional Bars or Benches Absent (0) Weak (1) Moderate (2) X Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) X Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) Moderate (2) Strong (3)	Sinuosity of channel along thalweg	X	Weak (1) Moderate (2)
Absent (0) Weak (1) Moderate (2) X Strong (3) Active/Relic Floodplain Active/Relic Floodplain Active/Relic Floodplain Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) X Strong (3) Depositional Bars or Benches Absent (0) Weak (1) Moderate (2) X Strong (3) Recent Alluvial Deposits Absent (0) X Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) X Weak (1) Moderate (2) Strong (3)		X	Weak (1) Moderate (2)
Recent Alluvial Deposits Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) Weak (1) Moderate (2) X Strong (3) Recent Alluvial Deposits Absent (0) X Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) X Weak (1) Moderate (2) Strong (3)	Particle Size of Stream Substrate	X	Weak (1) Moderate (2)
Recent Alluvial Deposits Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) X Weak (1) Moderate (2) Moderate (2)	Active/Relic Floodplain	X	Weak (1) Moderate (2)
Absent (0) X Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) X Weak (1) Moderate (2)	Depositional Bars or Benches	X	Weak (1) Moderate (2)
X Weak (1) Moderate (2)	Recent Alluvial Deposits	X	Weak (1) Moderate (2)
	Are Headcuts present	X	Weak (1) Moderate (2)

Natural Valley	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)	
Second or Greater Order Channel	No (0) X Yes (3)	
Hydrology		
Presence of Baseflow	Absent (0) Weak (1) Moderate (2) X Strong (3)	
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)	
Leaf Litter	Absent (1.5) Weak (1) Moderate (0.5) X Strong (0)	
Sediment on Plants or Debris	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)	
Organic Debris Lines or Piles	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)	
Soil-based evidence of high water table	No (0) X Yes (3)	
Biology		

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	X	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Crayfish		Absent (0)
		Weak (0.5)
		Moderate (1)
	X	Strong (1.5)
Amphibians		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Algae		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	44.25
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream







19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109176
Survey Date	07/22/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni
Stream Delineation ID	ST55
Latitude, Longitude	
Latitude	42.17385596
Longitude	-79.67585747
Accuracy	10.0 m
Current Precipitation	Heavy Rain None X Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C(T)
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	6
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder



	Bedrock
Range of Bankfull width for stream reach	8-15
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) X Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) Moderate (2) X Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) X Strong (3)
Depositional Bars or Benches	Absent (0) Weak (1) X Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)

Natural Valley Second or Greater Order Channel	X X X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
	X	No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
		Moderate (1)
	X	Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	Ц	Weak (0.5)
	X	Moderate (1)
	Ш	Strong (1.5)
Algae	X	Absent (0)
	\sqcup	Weak (0.5)
	\square	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed		FACW (0.75)
	X	OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	48.5
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

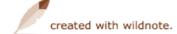
Photo up and downstream







19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115741
Survey Date	07/22/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST51
Latitude, Longitude	
Latitude	42.20857821
Longitude	-79.71724115
Accuracy	10.84 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	3
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder



		Bedrock
Range of Bankfull width for stream reach	1-4	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1) Moderate (2)
Sinuosity of channel along thalweg	X	Strong (3) Absent (0) Weak (1)
		Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2)
Recent Alluvial Deposits	X	Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control Natural Valley Second or Greater Order Channel	X X X X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0)
	\equiv	Yes (3)
Hydrology		
Presence of Baseflow		Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria		Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table		No (0) Yes (3)
Biology		

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		
	X	Absent (3) Weak (2)
		Moderate (1)
	Ħ	
Aquatic Macroinvertebrates	\equiv	Strong (0)
Aquatic Macroniverces rates		Absent (0)
	X	Weak (1)
	\square	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
	\sqcup	Weak (1)
	Щ	Moderate (2)
	Ш	Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Ħ	Weak (0.5)
	Ħ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Ħ	OBL (1.5)
	$\overline{\Box}$	Other (0)
		- Carior (0)

Stream Type Determination	
Total Score	23.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream







19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115742
Survey Date	07/22/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST52
Latitude, Longitude	
Latitude	42.20710674
Longitude	-79.71455359
Accuracy	20.09 m
Current Precipitation Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	8
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

	X	Bedrock
Range of Bankfull width for stream reach	4-15	
Geomorphology		
Continuity of channel bed and bank	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg		Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits		Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control Natural Valley	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5) Absent (0)
	Weak (0.5) Moderate (1) X Strong (1.5)
Second or Greater Order Channel	No (0) X Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) X Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) X Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	

Fibrous Roots in Streambed	X	Absent (3) Weak (2)
		Moderate (1) Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	X	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	Щ	Absent (0)
	Щ	Weak (1)
	Ш	Moderate (2)
	X	Strong (3)
Aquatic Mollusks	X	Absent (0)
	Щ	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Algae		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	45.25
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115750
Survey Date	07/22/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni and Joe Gallo
Stream Delineation ID	ST54
Latitude, Longitude	
Latitude	42.20847436
Longitude	-79.71007836
Accuracy	11.05 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C
Drainage Ditch Surface Water Depth at Thalweg (Inches)	X No Yes
Stream Gradient	
	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	 X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder

Geomorphology Continuity of channel bed and bank Continuity of channel bed and bank Continuity of channel bed and bank Continuity of channel bed and bank Continuity of channel bed and bank Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along thalweg Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (0) Weak (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity of channel along theaken (1) Continuity o			Bedrock
Continuity of channel bed and bank Absent (0) Weak (1) Moderate (2) Strong (3)	Range of Bankfull width for stream reach	3-10	
Continuity of channel bed and bank Absent (0) Weak (1) Moderate (2) Strong (3)			
	Geomorphology		
X Weak (1) Moderate (2) Strong (3)	Continuity of channel bed and bank		Absent (0)
Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) In Channel Structures Absent (0) Weak (1) Weak (1) Woderate (2) Strong (3) Weak (1) Woderate (2) Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) X Moderate (2) Strong (3) Active/Relic Floodplain Absent (0) X Weak (1) Moderate (2) Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) X Moderate (2) Strong (3) Absent (0) Weak (1) X Moderate (2) Strong (3) Absent (0) Weak (1) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2)		X	
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Active/Relic Floodplain Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Weak (1) Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) Moderate (2) Strong (3)		X	Moderate (2)
Absent (0) X Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches Absent (0) X Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) X Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) Moderate (2) Strong (3)			Strong (3)
Moderate (2) Strong (3) Depositional Bars or Benches Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) X Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) X Moderate (2) Strong (3) Are Moderate (2) Moderate (2) Moderate (2)	Active/Relic Floodplain		Absent (0)
Depositional Bars or Benches Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Weak (1) X Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) Weak (1) Moderate (2) Strong (3)		X	Weak (1)
Depositional Bars or Benches Absent (0) X Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Weak (1) X Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) X Moderate (2) Strong (3)			Moderate (2)
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Recent Alluvial Deposits Recent Alluvial Deposits Absent (0) Weak (1) Weak (1) Moderate (2) Strong (3) Are Headcuts present Absent (0) Weak (1) Moderate (2) Moderate (2) Moderate (2)	Depositional Bars or Benches		Absent (0)
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Are Headcuts present Absent (0) Weak (1) Moderate (2) Moderate (2)			
Are Headcuts present Absent (0) Weak (1) Moderate (2)		X	
Are Headcuts present Absent (0) Weak (1) Moderate (2)			Strong (3)
Weak (1) Moderate (2)	Are Headcuts present		
Moderate (2)			
X Strong (3)		X	Strong (3)

Grade Control Natural Valley	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Second or Greater Order Channel	X No (0) Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) Weak (1) X Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	
5.0.0	

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Algae		Absent (0)
	Щ	Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	27.75
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109179
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni, Joe Gallo
Stream Delineation ID	ST50
Latitude, Longitude	
Latitude	42.2085001
Longitude	-79.71389211
Accuracy	4.42 m
Current Precipitation Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow X Heavy Rain None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	8
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

	X	Bedrock
Range of Bankfull width for stream reach	6-20	
Geomorphology		
Continuity of channel bed and bank		Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg		Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures		Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate		Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain		Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches		Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits		Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Natural Valley Second or Greater Order Channel	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5) Absent (0) Weak (0.5) Moderate (1) X Strong (1.5) No (0) X Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) Moderate (2) X Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) Weak (1) X Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	

Fibrous Roots in Streambed	X	Absent (3) Weak (2) Moderate (1) Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3) Weak (2) Moderate (1) Strong (0)
Aquatic Macroinvertebrates		Absent (0) Weak (1) Moderate (2) Strong (3)
Aquatic Mollusks		Absent (0) Weak (1) Moderate (2) Strong (3)
Fish		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Crayfish		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Amphibians		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Algae		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Wetland Plants in Streambed		FACW (0.75) OBL (1.5) Other (0)

Stream Type Determination	
Total Score	51.25
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)
Photos and Notes	



Photo up and downstream











Notes

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115755
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST48
Latitude, Longitude	
Latitude	42.20430153
Longitude	-79.72149411
Accuracy	10.4 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	1-5	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
	Ħ	Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate	$\overline{\Box}$	
	X	Absent (0) Weak (1)
		Moderate (2)
	Ħ	
Active/Relic Floodplain		Strong (3)
, tell et le supram	X	Absent (0)
	H	Weak (1)
	H	Moderate (2)
Depositional Bars or Benches		Strong (3)
Depositional bars of benches		Absent (0)
	X	Weak (1)
		Moderate (2)
	\perp	Strong (3)
Recent Alluvial Deposits	Ц	Absent (0)
	Ш	Weak (1)
	X	Moderate (2)
		Strong (3)
Are Headcuts present		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)

Natural Valley Second or Greater Order Channel	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	Ħ	Weak (2)
	$\overline{\sqcap}$	Moderate (1)
	X	Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	\sqcup	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

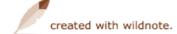
Stream Type Determination	
Total Score	10.25
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115756
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST55
Latitude, Longitude	
Latitude	42.20573921
Longitude	-79.72139529
Accuracy	10.83 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	2
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit)X Sand (Gritty feel)X GravelX CobbleBoulder



	X Bedrock
Range of Bankfull width for stream reach	8-15
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) X Moderate (2) Strong (3)
In Channel Structures	Absent (0) Weak (1) X Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) Weak (1) X Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)

Grade Control	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Natural Valley	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
Second or Greater Order Channel	No (0) X Yes (3)
Hydrology	
Presence of Baseflow	Absent (0) Weak (1) X Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) X Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X No (0) Yes (3)
Biology	

Fibrous Roots in Streambed		Absent (3)
	X	Weak (2)
	Щ	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
	Щ	Weak (2)
	Щ	Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Algae		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed		FACW (0.75)
		OBL (1.5)
	X	Other (0)

Stream Type Determination	
Total Score	32.5
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115757
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST49
Latitude, Longitude	
Latitude	42.20548887
Longitude	-79.72101541
Accuracy	16.16 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	4-8
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) X Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
		Weak (0.5)
	X	Moderate (1)
	Ш	Strong (1.5)
Second or Greater Order Channel		No (0)
	X	Yes (3)
Hydrology		
Presence of Baseflow		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
	X	Weak (1)
		Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table	X	No (0)
		Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)
	_ 	\- /

		Weak (2)
	X	Moderate (1)
Rooted Upland Plants in Streambed		Strong (0)
Rooted Opiana Flants in Streambed		Absent (3)
	X	Weak (2)
		Moderate (1)
Aquatic Macroinvertebrates		Strong (0)
	X	Absent (0) Weak (1)
	\Box	Moderate (2) Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
	П	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
	Ш	Other (0)
Stream Type Determination		
Sa cam Type Determination		

Total Score	
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115759
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST45
Latitude, Longitude	
Latitude	42.20350975
Longitude	-79.72145235
Accuracy	17.14 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	2-5
Geomorphology	
Continuity of channel bed and bank	Absent (0) X Weak (1) Moderate (2)
Sinuosity of channel along thalweg	Strong (3) X Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) X Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
	X	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0)
	П	Weak (1)
	$\overline{\Box}$	Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
	П	
	П	Moderate (2)
Leaf Litter		Strong (3)
Ecol Electi		Absent (1.5)
		Weak (1)
	X	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	Ш	Absent (0)
	X	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		Absent (0)
	X	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table	X	No (0)
		Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)

		Weak (2)
	X	Moderate (1)
Rooted Upland Plants in Streambed		Strong (0)
	Н	Absent (3)
	\square	Weak (2)
	X	Moderate (1) Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Н	Moderate (1)
A mana la ila i a ma		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
		Moderate (1)
Algae		Strong (1.5)
, 11 ₅ 00	X	Absent (0)
	\Box	Weak (0.5) Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)
		. ,
Stream Type Determination		

Total Score	9.25
Stream Determination	X Ephemeral (<18)
	Intermittent (>18)
	Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115760
Survey Date	07/23/2020
User	Matt Spadoni
Town/County/State	Chautauqua County, New York
Investigator(s)	Matt Spadoni & Joe Gallo
Stream Delineation ID	ST44
Latitude, Longitude	
Latitude	42.20316158
Longitude	-79.72072373
Accuracy	11.78 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel Cobble Boulder Bedrock



Range of Bankfull width for stream reach	1-6
Geomorphology	
Continuity of channel bed and bank	Absent (0) X Weak (1) Moderate (2)
Sinuosity of channel along thalweg	Strong (3) Absent (0) Weak (1) X Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) X Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) Weak (1) X Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)
Grade Control	X Absent (0)

		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
		Weak (0.5)
	$\overline{\Box}$	Moderate (1)
	$\overline{\Box}$	Strong (1.5)
Second or Greater Order Channel		
	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
		Weak (1)
	X	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris		Absent (0)
	$\overline{\Box}$	Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		
	X	Absent (0) Weak (0.5)
	\Box	Moderate (1)
Soil-based evidence of high water table		Strong (1.5)
Soll-based evidence of high water table		No (0)
	X	Yes (3)
Dislam		
Biology		
Fibrous Roots in Streambed		Absent (3)



		Weak (2)
	X	Moderate (1)
Pooted Unland Blants in Streamhod		Strong (0)
Rooted Upland Plants in Streambed	Н	Absent (3)
		Weak (2)
	X	Moderate (1)
Aquatic Macroinvertebrates		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Н	Weak (1)
		Moderate (2)
A quartic Mally rate		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Н	Weak (1)
		Moderate (2)
Fish		Strong (3)
FISH	X	Absent (0)
	Н	Weak (0.5)
		Moderate (1)
Crayfich		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
	Н	Moderate (1)
Amphibians		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
Algae		Strong (1.5)
Aigae	X	Absent (0)
		Weak (0.5)
	H	Moderate (1)
Wetland Plants in Streambed		Strong (1.5)
vectoria i larita il accombed	X	FACW (0.75)
	\square	OBL (1.5)
		Other (0)
Stream Type Determination		

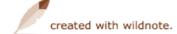
Total Score	18.25
Stream Determination	Ephemeral (<18) X Intermittent (>18)
	Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data Form 1	
Project	19020 South Ripley Solar
ID	109904
Survey Date	07/28/2020
User	Samantha Parker
Project Number	19020
Project Name	South Ripley
Investigator(s)	HK SPF
Town	South Ripley
County	Chautaqua County
State	New York
Stream Delineation ID	ST-57
Latitude, Longitude	
Latitude	42.20301637
Longitude	-79.72066927
Accuracy	1.1 m
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Stream Name	
Current Weather	Heavy Rain X None Rain Snow
Weather in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
Adjacent Ecological Communities	Forested
Hydrologic Characteristics	
Perceptible Flow	false
Flow Regime	R1 - Tidal R2 - Lower Perennial R3 - Upper Perennial R4 - Intermittent R5 - Unkown Perennial



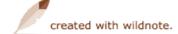
	X	R6 - Ephemeral
Flow Direction		East North Northeast Northwest South Southeast Southwest West
Surface Water Present	false	
Surface Water Depth at Thalweg (Inches)	0	
Stream (wetted) Width Range (Feet)	2	
Geomorphic Characteristics		
Stream Gradient	X	Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X	Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Bankfull Width range (Feet)	.5	
Average Bank Height (Feet)	0.5	
7.10.0.000		
Stream Conditions		
In Stream Cover	X X	Coarse Woody Debris Deep Pools Overhaning Vegetation Undercut Banks
Channel Alteration		Channel Armoring Channelization Impoundment
Drainage Ditch	false	
Photos and Notes		

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109905
Survey Date	07/28/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	SPF HK
Stream Delineation ID	ST 57
Latitude, Longitude	
Latitude	42.20300559
Longitude	-79.72065128
Accuracy	0.5 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	3
Geomorphology	
Continuity of channel bed and bank	Absent (0) X Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) X Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
		163 (3)
Hydrology		
Presence of Baseflow		Alamant (O)
Treserve of Busenow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
		Weak (1)
		Moderate (0.5)
	X	Strong (0)
Sediment on Plants or Debris	X	Absent (0)
	П	Weak (0.5)
		Moderate (1)
	$\overline{\Box}$	Strong (1.5)
Organic Debris Lines or Piles		
		Absent (0)
		Weak (0.5)
	X	Moderate (1)
Cail based avidence of high water table		Strong (1.5)
Soil-based evidence of high water table	X	No (0)
		Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)

		Weak (2)
	X	Moderate (1)
Pooted Unland Blants in Streamhod		Strong (0)
Rooted Upland Plants in Streambed	Н	Absent (3)
		Weak (2)
	X	Moderate (1)
Aquatic Macroinvertebrates		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Н	Weak (1)
		Moderate (2)
A quartic Mally rate		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Н	Weak (1)
		Moderate (2)
Fish		Strong (3)
FISH	X	Absent (0)
	Н	Weak (0.5)
		Moderate (1)
Crayfich		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
	Н	Moderate (1)
Amphibians		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
Algae		Strong (1.5)
Aigae	X	Absent (0)
		Weak (0.5)
	H	Moderate (1)
Wetland Plants in Streambed		Strong (1.5)
vectoria i larita il accombed	X	FACW (0.75)
	\square	OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	12.25
Stream Determination	X Ephemeral (<18)
	Intermittent (>18)
	Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109906
Survey Date	07/28/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	SPF HK
Stream Delineation ID	ST 59
Latitude, Longitude	
Latitude	42.20108476
Longitude	-79.71970538
Accuracy	10.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch Surface Water Depth at Thalweg (Inches)	X No Yes
Stream Gradient	
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	 X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder

	Bedrock
Range of Bankfull width for stream reach	4 feet
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1)
Sinuosity of channel along thalweg	Moderate (2) X Strong (3)
	Absent (0) X Weak (1) Moderate (2) Strong (2)
In Channel Structures	Strong (3)
In Chainer Structures	Absent (0) Weak (1) X Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control	X N	Nbsent (0) Veak (0.5) Moderate (1) trong (1.5)
Natural Valley	X M	lbsent (0) Veak (0.5) Moderate (1) trong (1.5)
Second or Greater Order Channel	\equiv	lo (0) (es (3)
Hydrology		
Presence of Baseflow	X W	obsent (0) Veak (1) Moderate (2) trong (3)
Iron Oxidizing Bacteria	□ w	obsent (0) Veak (1) Moderate (2) trong (3)
Leaf Litter	X M	Absent (1.5) Veak (1) Moderate (0.5) trong (0)
Sediment on Plants or Debris	□ w	Nbsent (0) Veak (0.5) Moderate (1) trong (1.5)
Organic Debris Lines or Piles	X W	Nobsent (0) Veak (0.5) Moderate (1) trong (1.5)
Soil-based evidence of high water table	\equiv	lo (0) (es (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
	Ш	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Щ	OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	18.75
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109924
Survey Date	07/28/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	SPF HK
Stream Delineation ID	ST 58
Latitude, Longitude	
Latitude	42.20108476
Longitude	-79.71970538
Accuracy	10.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0.5
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	 X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder

	☐ Bedrock
Range of Bankfull width for stream reach	4 feet
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) Weak (1) X Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control Natural Valley Second or Greater Order Channel	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Ц	Weak (0.5)
	\sqcup	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	18.75
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109900
Survey Date	07/29/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	SPF HK
Stream Delineation ID	ST 60
Latitude, Longitude	
Latitude	42.20417014
Longitude	-79.70987745
Accuracy	0.99 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	2	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
	H	Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
		Weak (1)
		Moderate (2)
Particle Size of Stream Substrate		Strong (3)
Particle Size of Stream Substrate	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Active/Relic Floodplain	X	Absent (0)
	Ш	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Depositional Bars or Benches	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Are Headcuts present	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)

Natural Valley Second or Greater Order Channel	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5) X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) X No (0) Yes (3)	
Hydrology		
Presence of Baseflow	X Absent (0) Weak (1) Moderate (2) Strong (3)	
Iron Oxidizing Bacteria	X Absent (0) Weak (1) Moderate (2) Strong (3)	
Leaf Litter	Absent (1.5) X Weak (1) Moderate (0.5) Strong (0)	
Sediment on Plants or Debris	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)	
Organic Debris Lines or Piles	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)	
Soil-based evidence of high water table	No (0) X Yes (3)	
Biology		

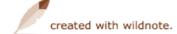
Strong (0) Rooted Upland Plants in Streambed	Fibrous Roots in Streambed	X	Absent (3) Weak (2) Moderate (1)
X Weak (2) Moderate (1) Strong (0)			
Weak (1) Moderate (2) Strong (3)	Rooted Upland Plants in Streambed	X	Weak (2) Moderate (1)
Weak (1)	Aquatic Macroinvertebrates	X	Weak (1) Moderate (2)
Fish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Strong (1.5) Crayfish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Weak (0.5) Moderate (1) Weak (0.5) Moderate (1) Strong (1.5) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5)	Aquatic Mollusks	X	Weak (1) Moderate (2)
Weak (0.5) Weak (0.5) Moderate (1) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5)	Fish	X 	Weak (0.5) Moderate (1)
Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Algae X Absent (0) Weak (0.5) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed D FACW (0.75) OBL (1.5)	Crayfish	X	Absent (0) Weak (0.5) Moderate (1)
Algae X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Wetland Plants in Streambed FACW (0.75) OBL (1.5)	Amphibians	X	Absent (0) Weak (0.5) Moderate (1)
OBL (1.5)	Algae	X	Absent (0) Weak (0.5) Moderate (1)
	Wetland Plants in Streambed	X	OBL (1.5)

Stream Type Determination	
Total Score	12
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	109901
Survey Date	07/29/2020
User	Samantha Parker
Town/County/State	Chautauqua County, New York
Investigator(s)	SPF HK
Stream Delineation ID	ST 61
Latitude, Longitude	
Latitude	42.20475197
Longitude	-79.709135
Accuracy	1.36 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	6 feet	
Geomorphology		
Continuity of channel bed and bank	Absent (0) Weak (1) X Moderate (2) Strong (3)	
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)	
In Channel Structures	Absent (0) Weak (1) Moderate (2) X Strong (3)	
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)	
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)	
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)	
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)	
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)	
Grade Control	Absent (0)	

	X	Weak (0.5) Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X	No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Riology		
Biology Eiberra Brata in Strangeland		
Fibrous Roots in Streambed		Absent (3)

	X	Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	Χ	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	\square	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Щ	OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	25.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)
	1 cremmar (* 25)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111389
Survey Date	08/05/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST68
Latitude, Longitude	
Latitude	42.20061747
Longitude	-79.7088361
Accuracy	9.56 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	X Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No
	Yes
Surface Water Depth at Thalweg (Inches)	0-3
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock

Range of Bankfull width for stream reach	5
Geomorphology	
Continuity of channel bed and bank Sinuosity of channel along thalweg	Absent (0) Weak (1) X Moderate (2) Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) X Strong (3) X Absent (0) Weak (1) Moderate (2)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Leaf Litter	X	Absent (1.5)
		Weak (1)
		Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table		No (0)
	X	Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)



	X	Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	X	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
	Ш	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Ш	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
	Ш	Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	Н	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Щ	OBL (1.5)
		Other (0)
Stream Type Determination		
Stream Type Determination		

Total Score	19.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111392
Survey Date	08/06/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST69
Latitude, Longitude	
Latitude	42.19154639
Longitude	-79.71058856
Accuracy	11.76 m
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow X Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream
NYSDEC mapped Classification	Class C
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	0-12
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

		Bedrock
Range of Bankfull width for stream reach	5-30	
Geomorphology		
Continuity of channel bed and bank		Absent (0) Weak (1)
Sinuosity of channel along thalweg	X	Moderate (2) Strong (3)
Sindosity of charmer along thatweg	X	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Natural Valley Second or Greater Order Channel	X 	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

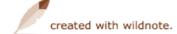
Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	34.75
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111963
Survey Date	08/06/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK, RM
Stream Delineation ID	ST070
Latitude, Longitude	
Latitude	42.19139519
Longitude	-79.70993938
Accuracy	8.0 m
Current Precipitation	Heavy Rain None X Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None X Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	4
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	8
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) X Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) X Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Leaf Litter		Absent (1.5)
	X	Weak (1)
		Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table		No (0)
	X	Yes (3)
Biology		
Fibrous Roots in Streambed	X	Absent (3)

		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
	H	Moderate (1)
	H	Strong (0)
Aquatic Macroinvertebrates	$\overline{}$	
, iquatic muci cim ci cest aces		Absent (0)
	X	Weak (1)
	\mathbb{H}	Moderate (2)
	\sqsubseteq	Strong (3)
Aquatic Mollusks	X	Absent (0)
	\sqcup	Weak (1)
	\sqcup	Moderate (2)
	Ш	Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	П	Weak (0.5)
	$\overline{\Box}$	Moderate (1)
	$\overline{\Box}$	Strong (1.5)
Algae		
	X	Absent (0) Weak (0.5)
	H	Moderate (1)
Wetland Plants in Streambed		Strong (1.5)
vvetiana riants in suleanibea	X	FACW (0.75)
		OBL (1.5)
		Other (0)
Stream Type Determination		
Stream Type Determination		

Total Score	28.75
Stream Determination	Ephemeral (<18) X Intermittent (>18)
	Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111957
Survey Date	08/10/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK,RM
Stream Delineation ID	ST073
Latitude, Longitude	
Latitude	42.18857443
Longitude	-79.70161434
Accuracy	6.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No X Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	5-2	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
	П	Weak (1)
	$\overline{\Box}$	Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		
	X	Absent (0) Weak (1)
		Moderate (2)
	H	
Active/Relic Floodplain		Strong (3)
Active/ Nelle 1100dplain	X	Absent (0)
		Weak (1)
		Moderate (2)
Danasitional Bars or Bonshos		Strong (3)
Depositional Bars or Benches	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Are Headcuts present	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)

Natural Valley Second or Greater Order Channel	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
		Weak (2)
		Moderate (1)
	X	Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	11.25
Stream Determination	X Ephemeral (<18)
	Intermittent (>18) Perennial (>29)

Photo up and downstream







19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111966
Survey Date	08/10/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK,RM
Stream Delineation ID	ST-71
Latitude, Longitude	
Latitude	42.19111229
Longitude	-79.70839458
Accuracy	6.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	6-2	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures		Absent (0)
	X	Weak (1)
	П	Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		
		Absent (0)
	X	Weak (1) Moderate (2)
Active/Relic Floodplain		Strong (3)
Active/ Neille Floodplain	X	Absent (0)
		Weak (1)
		Moderate (2)
Depositional Pars or Ponches		Strong (3)
Depositional Bars or Benches	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Are Headcuts present	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)

Natural Valley Second or Greater Order Channel	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0) Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3) Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Щ	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Щ	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Щ	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

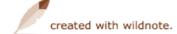
Stream Type Determination	
Total Score	18.75
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111967
Survey Date	08/10/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK,RM
Stream Delineation ID	ST072
Latitude, Longitude	
Latitude	42.19124616
Longitude	-79.71281921
Accuracy	16.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder Bedrock



Range of Bankfull width for stream reach	12
Geomorphology	
Continuity of channel bed and bank Sinuosity of channel along thalweg	Absent (0) Weak (1) Moderate (2) X Strong (3) Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	X Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) X Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) X Weak (1) Moderate (2) Strong (3)
Grade Control	Absent (0)

		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
	$\overline{\Box}$	Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
		165 (5)
Hydrology		
Presence of Baseflow		Ala a a 4 (0)
Tresence of Busenow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	Ш	Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
		Weak (1)
	X	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		
		Absent (0)
	X	Weak (0.5)
		Moderate (1)
Call based as idea as a Children was saled		Strong (1.5)
Soil-based evidence of high water table	Ш	No (0)
	X	Yes (3)
Biology		
Fibrous Roots in Streambed	X	Absent (3)

		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	24.25
Stream Determination	Ephemeral (<18) X Intermittent (>18)
	Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111953
Survey Date	08/11/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK/RM
Stream Delineation ID	ST078
Latitude, Longitude	
Latitude	42.19098208
Longitude	-79.69604499
Accuracy	32.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder

		Bedrock
Range of Bankfull width for stream reach	1-3	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		Absent (0)
		Weak (1)
	Ш	Moderate (2)
	X	Strong (3)
Active/Relic Floodplain	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Depositional Bars or Benches	X	Absent (0)
		Weak (1)
		Moderate (2)
	Ш	Strong (3)
Recent Alluvial Deposits	X	Absent (0)
	\vdash	Weak (1)
	\vdash	Moderate (2)
		Strong (3)
Are Headcuts present		Absent (0)
		Weak (1)
	X	Moderate (2)
	Ш	Strong (3)

Grade Control Natural Valloy	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Natural Valley		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	$\overline{}$	No (0) Yes (3)
Hydrology		
Presence of Baseflow Iron Oxidizing Bacteria		Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0)
		Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table		No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3) Weak (2)
	H	Moderate (1)
Rooted Upland Plants in Streambed		Strong (0)
Rooted Opiand Flants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Ц	Weak (1)
	Ц	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	\sqcup	Weak (0.5)
	\sqcup	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	18.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112134
Survey Date	08/11/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST075
Latitude, Longitude	
Latitude	42.1952415
Longitude	-79.69583141
Accuracy	24.58 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel Cobble Boulder

Range of Bankfull width for stream reach 3 Geomorphology Absent (0) Continuity of channel bed and bank Absent (0) Moderate (2) Strong (3) Sinuosity of channel along thalweg Absent (0) X Weak (1) Moderate (2) X trong (3) Strong (3) In Channel Structures Absent (0) X Weak (1) Moderate (2) X Weak (1) Moderate (2) X trong (3) Strong (3) Particle Size of Stream Substrate Absent (0) X Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) X Weak (1) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) X weak (1) Moderate (2) X Absent (0) Weak (1) X Weak (1) Weak (1) X Weak (1) Weak (1) X Weak (1) Weak (1) X Weak (1) Weak (1) X Weak (1) Weak (1) X Weak (1) Weak (1)			Bedrock
Continuity of channel bed and bank Absent (0) Weak (1) Strong (3) Sinuosity of channel along thalweg Sinuosity of channel along thalweg Moderate (2) Strong (3) In Channel Structures In Channel Structures Moderate (2) Strong (3) Particle Size of Stream Substrate Moderate (2) Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Recent Alluvial Deposits	Range of Bankfull width for stream reach	3	
Continuity of channel bed and bank Absent (0) Weak (1) Strong (3) Sinuosity of channel along thalweg Sinuosity of channel along thalweg Moderate (2) Strong (3) In Channel Structures In Channel Structures Moderate (2) Strong (3) Particle Size of Stream Substrate Moderate (2) Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Weak (1) Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Recent Alluvial Deposits			
Moderate (2) Strong (3)	Geomorphology		
Sinuosity of channel along thalweg Sinuosity of channel along thalweg Absent (0) Weak (1) Moderate (2) Strong (3) In Channel Structures Absent (0) Weak (1) Moderate (2) Strong (3) Particle Size of Stream Substrate Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3)	Continuity of channel bed and bank	X	Weak (1)
Weak (1) Moderate (2) Strong (3) In Channel Structures In Channel Structures Absent (0) Weak (1) Moderate (2) Strong (3) Particle Size of Stream Substrate Particle Size of Stream Substrate Absent (0) Weak (1) Weak (1) Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits	Sinuosity of channel along thalweg		Strong (3)
In Channel Structures Absent (0) Weak (1) Moderate (2) Strong (3)		X	Weak (1) Moderate (2)
Absent (0) Weak (1) X Moderate (2) Strong (3) Active/Relic Floodplain X Absent (0) Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) X Weak (1) Moderate (2) Strong (3)	In Channel Structures	X	Absent (0) Weak (1) Moderate (2)
Weak (1) Moderate (2) Strong (3) Depositional Bars or Benches X Absent (0) Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) X Weak (1) Weak (1)	Particle Size of Stream Substrate	X	Weak (1) Moderate (2)
Weak (1) Moderate (2) Strong (3) Recent Alluvial Deposits Absent (0) X Weak (1)	Active/Relic Floodplain	X	Weak (1) Moderate (2)
X Weak (1)	Depositional Bars or Benches	X	Weak (1) Moderate (2)
Strong (3)	Recent Alluvial Deposits	X	Weak (1) Moderate (2)
Are Headcuts present Absent (0) Weak (1) Moderate (2) X Strong (3)	Are Headcuts present	X	Weak (1) Moderate (2)

Grade Control Natural Valley	X 	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0)
	X	Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X	No (0) Yes (3)
Hydrology		
Presence of Baseflow Iron Oxidizing Bacteria		Absent (0) Weak (1) Moderate (2) Strong (3)
	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	\equiv	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles		Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
		Weak (2)
		Moderate (1)
	X	Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	21.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112135
Survey Date	08/11/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST074
Latitude, Longitude	
Latitude	42.19431846
Longitude	-79.69661806
Accuracy	6.73 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream X Yes
NYSDEC mapped Classification	Class C
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	0-24
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit)X Sand (Gritty feel)X GravelX CobbleX Boulder

	☐ Bedrock
Range of Bankfull width for stream reach	10-40
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) Moderate (2) X Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) X Moderate (2) Strong (3)
In Channel Structures	Absent (0) Weak (1) Moderate (2) X Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) X Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) X Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) Weak (1) X Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) Weak (1) X Moderate (2) Strong (3)
Are Headcuts present	Absent (0) Weak (1) X Moderate (2) Strong (3)

Grade Control Natural Valley	W M X St	bsent (0) /eak (0.5) loderate (1) trong (1.5) bsent (0)
Second or Greater Order Channel	☐ w ☐ m	/eak (0.5) loderate (1) crong (1.5)
Second or Greater Order Channel		o (0) es (3)
Hydrology		
Presence of Baseflow	☐ W	bsent (0) /eak (1) loderate (2) crong (3)
Iron Oxidizing Bacteria	X M	bsent (0) /eak (1) loderate (2) crong (3)
Leaf Litter	☐ w	bsent (1.5) /eak (1) loderate (0.5) crong (0)
Sediment on Plants or Debris	X M	bsent (0) /eak (0.5) loderate (1) crong (1.5)
Organic Debris Lines or Piles	X W	bsent (0) /eak (0.5) loderate (1) crong (1.5)
Soil-based evidence of high water table		o (0) es (3)
Biology		
5.0.0		

Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
	Ш	Weak (2)
	Щ	Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Aquatic Mollusks	X	Absent (0)
	Щ	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	Ш	Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Щ	OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	47.75
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream



Notes So many crayfish

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112136
Survey Date	08/11/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST076
Latitude, Longitude	
Latitude	42.190343
Longitude	-79.746178
Accuracy	m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	4	
Geomorphology		
Continuity of channel bed and bank		Absent (0) Weak (1)
	X	Moderate (2) Strong (3)
Sinuosity of channel along thalweg	X	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Second or Greater Order Channel	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Absent (0) Weak (0.5) Moderate (1) Strong (1.5) No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3) Weak (2)
	H	Moderate (1)
Rooted Upland Plants in Streambed		Strong (0)
Rooted Opiand Flants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Ц	Weak (1)
	Ц	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	\sqcup	Weak (0.5)
	\sqcup	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	18.75
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream



Notes Fix lat/long based on collector

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112137
Survey Date	08/11/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST077
Latitude, Longitude	
Latitude	42.19134729
Longitude	-79.69579168
Accuracy	11.84 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel Cobble Boulder

		Bedrock
Range of Bankfull width for stream reach	4	
Geomorphology		
Continuity of channel bed and bank		Absent (0) Weak (1)
	X	Moderate (2) Strong (3)
Sinuosity of channel along thalweg	X	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control	X N	bsent (0) Veak (0.5) Moderate (1) trong (1.5)
Natural Valley	X N	bsent (0) Veak (0.5) Noderate (1) trong (1.5)
Second or Greater Order Channel	\equiv	lo (0) es (3)
Hydrology		
Presence of Baseflow Iron Oxidizing Bacteria	W M	bsent (0) Veak (1) Noderate (2) trong (3)
	W N	bsent (0) Veak (1) Ioderate (2) trong (3)
Leaf Litter	X W	bsent (1.5) Veak (1) Voderate (0.5) trong (0)
Sediment on Plants or Debris	□ w	bsent (0) Veak (0.5) Moderate (1) trong (1.5)
Organic Debris Lines or Piles	□ w	bsent (0) Veak (0.5) Moderate (1) trong (1.5)
Soil-based evidence of high water table		lo (0) es (3)
Biology		

Fibrous Roots in Streambed	X	Absent (3) Weak (2)
	H	Moderate (1)
Rooted Upland Plants in Streambed		Strong (0)
Rooted Opiand Flants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
	Ц	Weak (1)
	Ц	Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Щ	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	\sqcup	Weak (0.5)
	\sqcup	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	18.75
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream



Notes Fix lat/long based on collector

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112138
Survey Date	08/11/2020
User	Rachael Miller
Town/County/State	Chautauqua County, New York
Investigator(s)	RM JK
Stream Delineation ID	ST074-2
Latitude, Longitude	
Latitude	42.18848556
Longitude	-79.69589199
Accuracy	11.19 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain None Rain Snow X Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	6
Stream Gradient	Gentle (0-5%) X Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) Gravel X Cobble X Boulder

Range of Bankfull width for stream reach Geomorphology Continuity of channel bed and bank [Absent (0) Weak (1) Moderate (2)
	Weak (1) Moderate (2)
Continuity of channel bed and bank	Weak (1) Moderate (2)
	Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) Weak (1) Moderate (2) Strong (3)

Grade Control Natural Valley	Absent (0) Weak (0.5) X Moderate (1) Strong (1.5)
	Absent (0) Weak (0.5) Moderate (1) X Strong (1.5)
Second or Greater Order Channel	No (0) X Yes (3)
Hydrology	
Presence of Baseflow	X Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	Absent (0) Weak (1) Moderate (2) X Strong (3)
Leaf Litter	X Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	No (0) X Yes (3)
Biology	
Sicio ₆	

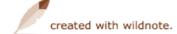
Fibrous Roots in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Ц	Weak (0.5)
	Ц	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	36.75
Stream Determination	Ephemeral (<18) Intermittent (>18) X Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111955
Survey Date	08/12/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK, RM
Stream Delineation ID	ST080
Latitude, Longitude	
Latitude	42.19179447
Longitude	-79.69625955
Accuracy	16.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	.25
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder



		Bedrock
Range of Bankfull width for stream reach	.5-1	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		Absent (0)
	H	Weak (1)
	X	Moderate (2)
		Strong (3)
Active/Relic Floodplain		
	X	Absent (0)
		Weak (1)
		Moderate (2)
Depositional Bars or Benches		Strong (3)
Depositional bars of benches	X	Absent (0)
	\vdash	Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
	Щ	Moderate (2)
		Strong (3)
Are Headcuts present		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)

Grade Control Natural Valley	X V	Absent (0) Veak (0.5) Moderate (1) Strong (1.5) Absent (0)
		Veak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	$\overline{}$	Vo (0)
Hydrology		
Presence of Baseflow	□ v	Nbsent (0) Veak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X V	Absent (0) Veak (1) Moderate (2) Strong (3)
Leaf Litter	X N	Nbsent (1.5) Veak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	□ v	Nobsent (0) Veak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles		Nobsent (0) Veak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	\equiv	Vo (0) Ves (3)
Biology		

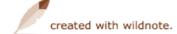
Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	\overline{X}	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	11.25
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream



19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	111968
Survey Date	08/12/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK, RM
Stream Delineation ID	ST079
Latitude, Longitude	
Latitude	42.19126021
Longitude	-79.69639115
Accuracy	6.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No X No, but connects to mapped stream Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	.25
Stream Gradient	Gentle (0-5%) Moderate (6-11%) X Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble Boulder



		Bedrock
Range of Bankfull width for stream reach	.5-1	
Geomorphology		
Continuity of channel bed and bank		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Sinuosity of channel along thalweg	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
In Channel Structures	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Particle Size of Stream Substrate		Absent (0)
	H	Weak (1)
	X	Moderate (2)
		Strong (3)
Active/Relic Floodplain		
	X	Absent (0)
		Weak (1)
		Moderate (2)
Depositional Bars or Benches		Strong (3)
Depositional bars of benches	X	Absent (0)
	\vdash	Weak (1)
		Moderate (2)
		Strong (3)
Recent Alluvial Deposits	X	Absent (0)
		Weak (1)
	Щ	Moderate (2)
		Strong (3)
Are Headcuts present		Absent (0)
		Weak (1)
	X	Moderate (2)
		Strong (3)

Grade Control Natural Valley	Absent (0) X Weak (0.5) Moderate (1) Strong (1.5) Absent (0) X Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X No (0) Yes (3)
Hydrology	
Presence of Baseflow	X Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	Absent (0) X Weak (1) Moderate (2) Strong (3)
Leaf Litter	Absent (1.5) Weak (1) X Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X No (0) Yes (3)
Biology	
ыообу	

Fibrous Roots in Streambed		Absent (3)
		Weak (2)
	X	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	\overline{X}	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)

Stream Type Determination	
Total Score	11.25
Stream Determination	X Ephemeral (<18) Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	112338
Survey Date	08/13/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK, RM
Stream Delineation ID	ST081
Latitude, Longitude	
Latitude	42.17503377
Longitude	-79.69427952
Accuracy	6.0 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	No Yes
Surface Water Depth at Thalweg (Inches)	1-5
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	 X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble X Boulder Bedrock



Range of Bankfull width for stream reach	6-20
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) X Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) X Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) X Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	Absent (0) Weak (1) Moderate (2) X Strong (3)
Are Headcuts present	X Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control	X Absent (0)

		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Iron Oxidizing Bacteria	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Leaf Litter	X	Absent (1.5) Weak (1) Moderate (0.5) Strong (0)
Sediment on Plants or Debris	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0) Weak (0.5) Moderate (1) Strong (1.5)
Soil-based evidence of high water table	X	No (0) Yes (3)
Rielen		
Biology		
Fibrous Roots in Streambed	X	Absent (3)

	Weak (2)
	Moderate (1)
	Strong (0)
Rooted Upland Plants in Streambed	X Absent (3)
	Weak (2)
	Moderate (1)
	Strong (0)
Aquatic Macroinvertebrates	
	Absent (0)
	Weak (1)
	X Moderate (2)
Aquatic Mollusks	Strong (3)
Aquatic Moliusks	X Absent (0)
	Weak (1)
	Moderate (2)
	Strong (3)
Fish	X Absent (0)
	Weak (0.5)
	Moderate (1)
	Strong (1.5)
Crayfish	X Absent (0)
	Weak (0.5)
	Moderate (1)
	Strong (1.5)
Amphibians	Absent (0)
	X Weak (0.5)
	Moderate (1)
	Strong (1.5)
Algae	Absent (0)
	X Weak (0.5)
	Moderate (1)
	Strong (1.5)
Wetland Plants in Streambed	FACW (0.75)
	X OBL (1.5)
	Other (0)
Stream Type Determination	

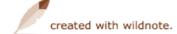
Stream Determination Ephemeral (<18)	
Intermittent (>18) X Perennial (>29)	

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115625
Survey Date	08/19/2020
User	Joseph Knight
Town/County/State	Chautauqua County, New York
Investigator(s)	JK, SPF
Stream Delineation ID	ST082
Latitude, Longitude	
Latitude	42.19117278
Longitude	-79.71274554
Accuracy	16.0 m
Current Precipitation	Heavy Rain
	X None
	Rain
	Snow
Precipitation in Past 48 Hours	SHOW
riecipitation in rast 40 riours	Heavy Rain
	X None
	Rain
	Snow
	Unknown
General Characteristics	
NYSDEC Mapped Stream	[]
MISDEC Mapped Stream	X No
	No, but connects to mapped
	stream
During and Ditale	☐ Yes
Drainage Ditch	X No
	Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%)
	X Moderate (6-11%)
	Steep (>12%)
Substrate	
Substitute	X Silt/Clay (No grit)
	Sand (Gritty feel)
	X Gravel
	X Cobble
	Boulder
	Bedrock



Range of Bankfull width for stream reach	1-2	
Geomorphology		
Continuity of channel bed and bank	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg	X	Absent (0) Weak (1) Moderate (2) Strong (3)
In Channel Structures	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	X	Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control	X	Absent (0)

		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
	H	Weak (0.5)
	$\overline{\Box}$	Moderate (1)
	$\overline{\Box}$	Strong (1.5)
Second or Greater Order Channel		
	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0)
		Weak (1)
	\square	Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
		Weak (1)
	X	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
	П	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0)
		Weak (0.5)
	П	Moderate (1)
	П	Strong (1.5)
Soil-based evidence of high water table		
	X	No (0)
		Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)



		Weak (2)
	Χ	Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
		Weak (2)
		Moderate (1)
	X	Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
	Ш	Weak (1)
	Ш	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ш	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
	Ш	Strong (1.5)
Algae	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	3.25
Stream Determination	X Ephemeral (<18)
	Intermittent (>18)
	Perennial (>29)

Photo up and downstream

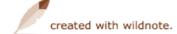






Notes Erosion from wetland

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	113825
Survey Date	08/26/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	Josh Marchner Joe Gallo Jess Detoy
Stream Delineation ID	ST75
Latitude, Longitude	
Latitude	42.18674658
Longitude	-79.74431094
Accuracy	1.57 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) X Sand (Gritty feel) X Gravel X Cobble Boulder Bedrock



Range of Bankfull width for stream reach	2-6
Geomorphology	
Continuity of channel bed and bank	Absent (0) Weak (1) X Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) X Weak (1) Moderate (2) Strong (3)
In Channel Structures	Absent (0) X Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	Absent (0) Weak (1) X Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) X Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches	X Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present	Absent (0) Weak (1) Moderate (2) X Strong (3)
Grade Control	Absent (0)

	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
		163 (3)
Hydrology		
Presence of Baseflow		Abcost (0)
	X	Absent (0)
		Weak (1)
		Moderate (2)
Iron Oxidizing Bacteria		Strong (3)
TOTI Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
	\perp	Strong (3)
Leaf Litter	Ц	Absent (1.5)
	Ц	Weak (1)
	Щ	Moderate (0.5)
	X	Strong (0)
Sediment on Plants or Debris	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Soil-based evidence of high water table		No (0)
	X	Yes (3)
Biology		
Fibrous Roots in Streambed		Absent (3)
		אטפווג (ט)



	X	Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed		Absent (3)
	X	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
	Щ	Moderate (2)
		Strong (3)
Fish	X	Absent (0)
	Ш	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
	Ш	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Щ	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
	Щ	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
	Ш	OBL (1.5)
		Other (0)
Stream Type Determination		
Stream Type Determination		

Total Score	19.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)
	T CI CI I I I I I I I I I I I I I I I I

Photo up and downstream





19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	115475
Survey Date	08/27/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	Josh Marchner Joe Gallo Jess Detoy
Stream Delineation ID	ST76
Latitude, Longitude	
Latitude	42.19028857
Longitude	-79.74616632
Accuracy	8.99 m
Current Precipitation	Heavy Rain X None Rain Snow
Precipitation in Past 48 Hours	Heavy Rain X None Rain Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	X No No, but connects to mapped stream Yes
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)
Substrate	X Silt/Clay (No grit) Sand (Gritty feel) X Gravel X Cobble X Boulder Bedrock

Range of Bankfull width for stream reach	3-6	
Geomorphology		
Continuity of channel bed and bank Sinuosity of channel along thalweg	X 5	Absent (0) Weak (1) Moderate (2) Strong (3) Absent (0)
In Channal Churchuras		Weak (1) Moderate (2) Strong (3)
In Channel Structures	X \	Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X 1	Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain		Absent (0) Weak (1) Moderate (2) Strong (3)
Depositional Bars or Benches		Absent (0) Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits		Absent (0) Weak (1) Moderate (2) Strong (3)
Are Headcuts present		Absent (0) Weak (1) Moderate (2) Strong (3)
Grade Control		Absent (0)

	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Natural Valley		Absent (0)
	X	Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
	X	Weak (1)
		Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
	H	Weak (0.5)
	$\overline{\Box}$	Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles	$\overline{\Box}$	
	X	Absent (0) Weak (0.5)
		Moderate (1)
	П	Strong (1.5)
Soil-based evidence of high water table	$\overline{\Box}$	
	X	No (0) Yes (3)
		()
Biology		
Fibrous Roots in Streambed	X	Absent (3)
		אטפווג (ט)

		Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
		Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Amphibians	X	Absent (0)
	Ш	Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Wetland Plants in Streambed	X	FACW (0.75)
		OBL (1.5)
		Other (0)
Stream Type Determination		

Total Score	19.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream





19020 South Ripley Solar Checklist

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	123516
Survey Date	11/18/2020
User	Tiffany Clay
Town/County/State	Chautauqua County, New York
Investigator(s)	TC & HK
Stream Delineation ID	ST1001
Latitude, Longitude	
Latitude	42.18168011
Longitude	-79.71802209
Accuracy	4.71 m
Current Precipitation	Heavy Rain None Rain X Snow
Precipitation in Past 48 Hours	Heavy Rain None Rain X Snow Unknown
General Characteristics	
NYSDEC Mapped Stream	No No, but connects to mapped stream X Yes
NYSDEC mapped Classification	С
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	12
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)

Substrate Decree of Book followidth for the contract of the state of	X Silt/Clay (No grit) Sand (Gritty feel) Gravel Cobble Boulder Bedrock
Range of Bankfull width for stream reach	4-12
Geomorphology	
Continuity of channel bed and bank	X Absent (0) Weak (1) Moderate (2) Strong (3)
Sinuosity of channel along thalweg	Absent (0) Weak (1) Moderate (2) X Strong (3)
In Channel Structures	X Absent (0) Weak (1) Moderate (2) Strong (3)
Particle Size of Stream Substrate	X Absent (0) Weak (1) Moderate (2) Strong (3)
Active/Relic Floodplain	Absent (0) Weak (1) Moderate (2) X Strong (3)
Depositional Bars or Benches	Absent (0) X Weak (1) Moderate (2) Strong (3)
Recent Alluvial Deposits	X Absent (0) Weak (1) Moderate (2)

		Strong (3)
Are Headcuts present	Χ	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Grade Control		Absent (0)
		Weak (0.5)
	X	Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Second or Greater Order Channel		No (0)
	X	Yes (3)
Hydrology		
Presence of Baseflow		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Leaf Litter		Absent (1.5)
		Weak (1)
		Moderate (0.5)
	X	Strong (0)
Sediment on Plants or Debris	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles		Absent (0)
		Weak (0.5)
		Moderate (1)
		. ,

No (0)		X	Strong (1.5)
Fibrous Roots in Streambed X Weak (2) Moderate (1) Strong (0)	Soil-based evidence of high water table	X	
Fibrous Roots in Streambed X Weak (2) Moderate (1) Strong (0)			
Weak (2)	Biology		
Weak (2)	Fibrous Roots in Streambed	X	Weak (2) Moderate (1)
Weak (1) Moderate (2) Strong (3)	Rooted Upland Plants in Streambed	X	Weak (2) Moderate (1)
Aquatic Mollusks X Moderate (2) Moderate (2) Strong (3)	Aquatic Macroinvertebrates	X	Weak (1) Moderate (2)
Fish X Absent (0)	Aquatic Mollusks	X	Absent (0) Weak (1) Moderate (2)
Crayfish X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Strong (1.5) Amphibians X Absent (0) Weak (0.5) Moderate (1) Strong (1.5) Strong (1.5) Algae X Absent (0) Weak (0.5) Weak (0.5)	Fish	X	Absent (0) Weak (0.5) Moderate (1)
Weak (0.5) Moderate (1) Strong (1.5) Algae X	Crayfish	X	Absent (0) Weak (0.5) Moderate (1)
Algae X Absent (0) Weak (0.5)	Amphibians	X	Weak (0.5) Moderate (1)
	Algae	X	Absent (0) Weak (0.5)

	Strong (1.5)
Wetland Plants in Streambed	X FACW (0.75) OBL (1.5) Other (0)
Stream Type Determination	
Total Score	26.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream







Several areas where no channel is evident. Stream widens into wetland, the picks up a channel again farther south. Entire area is inundated wetland with very little channelization. Many hummocks of hemlock trees within flooded woodland floor.

19020 South Ripley Solar Checklist

19020 South Ripley Stream Data 1	
Project	19020 South Ripley Solar
ID	123517
Survey Date	11/18/2020
User	Tiffany Clay
Town/County/State	Chautauqua County, New York
Investigator(s)	TC & HK
Stream Delineation ID	ST1002
Latitude, Longitude	
Latitude	42.18305922
Longitude	-79.70743606
Accuracy	9.86 m
Current Precipitation	Heavy Rain None Rain X Snow
Precipitation in Past 48 Hours	Heavy Rain None Rain X Snow Unknown
General Characteristics	
NYSDEC Mapped Stream NYSDEC mapped Classification	No No, but connects to mapped stream X Yes C
Drainage Ditch	X No Yes
Surface Water Depth at Thalweg (Inches)	18
Stream Gradient	X Gentle (0-5%) Moderate (6-11%) Steep (>12%)

Substrate	X Silt/Clay (No grit)
	Sand (Gritty feel)
	Gravel
	Cobble
	Boulder
	Bedrock
Range of Bankfull width for stream reach	1 ft to 4 ft
Geomorphology	
Continuity of channel bed and bank	Absent (0)
	X Weak (1)
	Moderate (2)
	Strong (3)
Sinuosity of channel along thalweg	Absent (0)
	X Weak (1)
	Moderate (2)
In Channel Structures	Strong (3)
The Charmer Structures	X Absent (0)
	Weak (1)
	Moderate (2)
	Strong (3)
Particle Size of Stream Substrate	X Absent (0)
	Weak (1)
	Moderate (2)
	Strong (3)
Active/Relic Floodplain	Absent (0)
	Weak (1)
	Moderate (2)
	X Strong (3)
Depositional Bars or Benches	X Absent (0)
	Weak (1)
	Moderate (2)
	Strong (3)
Recent Alluvial Deposits	
	Ħ
	Weak (1)
	Moderate (2)

		Strong (3)
Are Headcuts present	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Grade Control	X	Absent (0)
		Weak (0.5)
	Ш	Moderate (1)
		Strong (1.5)
Natural Valley	X	Absent (0)
		Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Second or Greater Order Channel	X	No (0)
		Yes (3)
Hydrology		
Presence of Baseflow		Absent (0)
		Weak (1)
		Moderate (2)
	X	Strong (3)
Iron Oxidizing Bacteria	X	Absent (0)
	Щ	Weak (1)
	Щ	Moderate (2)
		Strong (3)
Leaf Litter	X	Absent (1.5)
	Щ	Weak (1)
	Щ	Moderate (0.5)
		Strong (0)
Sediment on Plants or Debris	X	Absent (0)
	Щ	Weak (0.5)
	Щ	Moderate (1)
		Strong (1.5)
Organic Debris Lines or Piles	X	Absent (0)
		Weak (0.5)
		Moderate (1)

		Strong (1.5)
Soil-based evidence of high water table		No (0)
	Χ	Yes (3)
Biology		
Fibrous Roots in Streambed	X	Absent (3)
	Щ	Weak (2)
		Moderate (1)
		Strong (0)
Rooted Upland Plants in Streambed	X	Absent (3)
	Щ	Weak (2)
		Moderate (1)
		Strong (0)
Aquatic Macroinvertebrates		Absent (0)
	X	Weak (1)
		Moderate (2)
		Strong (3)
Aquatic Mollusks	X	Absent (0)
		Weak (1)
		Moderate (2)
		Strong (3)
Fish	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Crayfish	X	Absent (0)
		Weak (0.5)
	$\overline{\Box}$	Moderate (1)
	$\overline{\Box}$	Strong (1.5)
Amphibians		
, and an an an an an an an an an an an an an	X	Absent (0)
		Weak (0.5)
		Moderate (1)
		Strong (1.5)
Algae	X	Absent (0)
		Weak (0.5)
		Moderate (1)

	Strong (1.5)
Wetland Plants in Streambed	X FACW (0.75) OBL (1.5) Other (0)
Stream Type Determination	
Total Score	20.25
Stream Determination	Ephemeral (<18) X Intermittent (>18) Perennial (>29)

Photo up and downstream





Notes

Near culvert on both sides stream looses channel and widens into wetland with no channelization

Project	19020 South Ripley Solar
ID	128904
Survey Date	12/15/2020
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM
Stream Delineation ID	TT Stream 001
Latitude, Longitude	
Latitude	42.187437
Longitude	-79.752132
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Rain, Snow
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	2
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Sand (Gritty feel), Silt/Clay (No grit)
Range of Bankfull width for stream reach	3-6
Geomorphology	
Continuity of channel bed and bank	Moderate (2)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Weak (1)
Particle Size of Stream Substrate	Moderate (2)
Active/Relic Floodplain	Moderate (2)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)

Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Moderate (1)
Second or Greater Order Channel	No (0)

Hydrology	
Presence of Baseflow	Moderate (2)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Weak (0.5)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determinatio	n
Total Score	23
Stream Determination	Intermittent (>18)

Photo up and downstream



Notes

Headwater stream flowing out of wetland to the west. May connect with mapped NYSDEC class C stream to the southwest outside of study area but this connection is not verified.

19020 South Ripley Stre	am Data 1
Project	19020 South Ripley Solar
ID	128896
Survey Date	01/12/2021
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM HK
Stream Delineation ID	TT Ditch 003
Latitude, Longitude	
Latitude	42.194536
Longitude	-79.74985
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Snow
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%)
Substrate	Silt/Clay (No grit)
Range of Bankfull width for stream reach	2-4
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Absent (0)
Second or Greater Order	No (0)

Channel

Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Moderate (1)
Rooted Upland Plants in Streambed	Weak (2)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determination

Total Score 13.75

Stream Determination Ephemeral (<18)

Photos and Notes

Photo up and downstream



19020 South Ripley Stre	
Project ID	19020 South Ripley Solar
	128898
Survey Date	01/12/2021
User Town/County/State	Joshua Marchner Chautaugua County, New York
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM HK
Stream Delineation ID	TT Ditch 004
Latitude, Longitude	42.10460214
Latitude	42.19469814
Longitude	-79.7493103
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Snow
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	Yes
Surface Water Depth at Thalweg (Inches)	0
Stream Gradient	Gentle (0-5%)
Substrate	Silt/Clay (No grit)
Range of Bankfull width for stream reach	3-5
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Absent (0)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Absent (0)
Second or Greater Order	No (0)

Channel

Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Moderate (1)
Rooted Upland Plants in Streambed	Weak (2)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determination

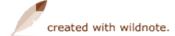
Total Score 12.75

Stream Determination Ephemeral (<18)

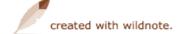
Photos and Notes

Photo up and downstream





19020 South Ripley Stre	am Data 1	
Project	19020 South Ripley Solar	
ID	128899	
Survey Date	01/12/2021	
User	Joshua Marchner	
Town/County/State	Chautauqua County, New York	
Investigator(s)	JAM HK	
Stream Delineation ID	TT Ditch 001	
Latitude, Longitude		
Latitude	42.19547	
Longitude	-79.736473	
Accuracy	m	
Current Precipitation	None	
Precipitation in Past 48 Hours	Snow	
General Characteristics		
NYSDEC Mapped Stream	No	
Drainage Ditch	Yes	
Surface Water Depth at Thalweg (Inches)	0	
Stream Gradient	Gentle (0-5%)	
Substrate	Silt/Clay (No grit)	
Range of Bankfull width for stream reach	2-3	
Geomorphology		
Continuity of channel bed and bank	Moderate (2)	
Sinuosity of channel along thalweg	Absent (0)	
In Channel Structures	Absent (0)	
Particle Size of Stream Substrate	Absent (0)	
Active/Relic Floodplain	Absent (0)	
Depositional Bars or Benches	Absent (0)	
Recent Alluvial Deposits	Absent (0)	
Are Headcuts present	Absent (0)	
Grade Control	Absent (0)	
Natural Valley	Absent (0)	
Second or Greater Order	No (0)	



Channel

Hydrology	
Presence of Baseflow	Absent (0)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Moderate (1)
Rooted Upland Plants in Streambed	Moderate (1)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determination

Total Score 8.75

Stream Determination Ephemeral (<18)

Photos and Notes

Photo up and downstream





19020 South Ripley Stre	
Project	19020 South Ripley Solar
ID Samuel Bate	128902
Survey Date	01/12/2021
User	Joshua Marchner
Town/County/State	Chautauqua County, New York
Investigator(s)	JAM HK
Stream Delineation ID	TT Ditch 002
Latitude, Longitude	
Latitude	42.196029
Longitude	-79.73619
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Snow
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	Yes
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%)
Substrate	Gravel, Silt/Clay (No grit)
Range of Bankfull width for stream reach	2-3
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Absent (0)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Moderate (2)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Absent (0)
Natural Valley	Absent (0)
Second or Greater Order	No (0)

Channel

Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)

Biology	
Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Weak (2)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	OBL (1.5)

Stream Type Determination

Total Score 15.5

Stream Determination Ephemeral (<18)

Photos and Notes

Photo up and downstream





Stream Field ID:	Stream 001						
Data Point ID:	DP-007	Date:	Jul 30, 2020		Project #:	200253	
Project Name:	Ripley Solar						
Evaluator(s):	James Ireland						
County:	Chautauqua				S	tate: NY	
Stream Name:	Unnamed Trib	utary to Lake	Erie				
State Classified:	Yes		No	Χ	N//	4	
If Yes, Classification: Lat: 42.199819°N Long: 79.748801°W							
		Hyar	ologic Characte	eristics			
Flow Regime:	Perenr	nial	Intermi	ttent		Ephemeral	X
Surface Water:		Present	X		Absent		
Perceptible Flow:		Present			Absent	Х	
Defined Banks:		Present	Х		Absent		
Water Depth at The	alweg:		0	inches			
Wetted Perimeter \	Width:		2	feet			
Flow/Gradient Dire	ction:		North				
		Geomor	phologic Chara	cteristic	cs		
Primary Subs	strate Class:	Silt and	Cobble mix				
			Width (ft.)				
	a	t DP	Min.		Max.		
0	HWM	2	2		2		
Top of	Bank	3	3		3		
	20 degrees	izontal:Vertic	al(H:V)]:				
Right:	20 degrees						
			k Stability Sum	mary			
Left: Unstab	le- undercut bar	nks					
Right: Unstab	le- undercut bar	nks					



	Habitat Charact	eristics		
Aquatic Vegetation Present: If Yes, Describe:	Yes		No	Х
Aquatic Organisms Observed: If Yes, Describe:	Yes		No	X
Terrestrial Organisms Observed: If Yes, Describe:	Yes		No	X
F	Riparian Charac	teristics		
Riparian Vegetation Description (0' to 150' from Left: Upland deciduous forest, sugar Right: Upland deciduous forest, sugar response to the control of the c	maples			
Associated Wetland Present: If Yes, ID:	Yes		No	Х
Associated Artificial Drain Present: If Yes, ID:	Yes		No	Х
Jurisdictional C	Connectivity/Sup	oplemental Commer	nts:	
Flows north into Wetland 004. Starts near W				



Stream Field ID:	Strea	am 002							
Data Point ID:	DP-0		te:	Aug 3, 2020		Project #:	2005	23	_
Project Name:	South	h Ripley Solar and	Sto	rage Project		_			
Evaluator(s):	Jame	es Ireland							
County:	Chau Cour	utauqua nty				S	tate:	NY	
Stream Name:	Unna	amed Tributary to T	wer	ntymile Creek					
State Classified:		Yes		No	Χ	N/.	Α		
If Yes, Classification: Lat: 42.192460°N									
Hydrologic Characteristics									
Flow Regime:		Perennial		Intermi	tent	Х	Eph	emeral	
Surface Water:		Present				Absent		Χ	
Perceptible Flow:		Present				Absent		Χ	
Defined Banks:		Present		Х		Absent			
Water Depth at Th	nalweg:			0	inche	es			
Wetted Perimeter	Width:			0	feet				
Flow/Gradient Dire	ection:			East					
		Geor	nor	phologic Chara	cteris	stics			
Primary Sub	strate (Class: Silt							
				Width (ft.)					
		at DP		Min.		Max.			
C	MWHC	3		3		6			
Top o	f Bank	4		4		8			
		% or Horizontal:Ve	ertic	al(H:V)]:					
	65 de								
Right:	60 de	egrees							
	.,		Ban	k Stability Sum	mary				
Right: Stable	e- Vege	tated Banks							
	. \/-	tota d Davida							
Left: Stable	e- vege	tated Banks							



Habitat Characteristics								
Aquatic Vegetation Present: If Yes, Describe:		Yes		No	X			
Aquatic Organisms C		Yes		No	Х			
Terrestrial Organisms If Yes, Describ		Yes		No	Х			
	Ripa	arian Charact	teristics					
Right: Wetland	Description (0' to 150' from 007-> active wheat field 007-> active wheat field	TOB):						
Associated Wetland I	Present: WL-007	Yes	X	No				
Associated Artificial E	Orain Present:	Yes	Х	No				
	Jurisdictional Con	nectivity/Sup	plemental Comm	ents:				
Flows East through the north.	wheat field under the road.	Surrounded b	by wetland 007. Po	ssibly connects	s to Stream 008 to			



Stream Field ID:	Strea	ım 003						
Data Point ID:	DP-0	29 Date	e: Aug 3, 2020		Project #:	200523		
Project Name:	South	n Ripley Solar and S	Storage Project		•			
Evaluator(s):	Jame	s Ireland						
County:	Chau Coun	tauqua ty		_	Si	tate: NY		
Stream Name:	Unna	med Tributary to Tv	wentymile Creek					
State Classified:		Yes	No	Χ	N//	A]	
If Your Lat: 42.194229°I		assification:	Long:	79.748	3021°W			
Hydrologic Characteristics								
Flow Regime:		Perennial	Interm	ittent		Ephemeral [Х	
Surface Water:		Present			Absent	Х		
Perceptible Flow:		Present			Absent	Х		
Defined Banks:		Present	Х		Absent			
Water Depth at Tha	alweg:		0	inches				
Wetted Perimeter V	Width:		0	feet				
Flow/Gradient Dire	ction:		East					
			norphologic Char	acteristi	ics			
Primary Subs	strate C	Class: Silt						
			Width (ft.)					
		at DP	Min.		Max.			
OI	HWM	2	1		3			
Top of	Bank	3	2		4			
	ted as	% or Horizontal:Vei	rtical(H:V)]:					
	20 de	<u> </u>						
Right:	20 de	egrees					7	
51.1.1.01.11	.,		Bank Stability Sur	nmary				
Right: Stable-	· Veget	tated Banks						
<u> </u>								
Left: Stable-	Veget	ated Banks		· · · · · · · · · · · · · · · · · · ·				



		Habitat Characte	eristics		
Aquatic Vegetation Present: If Yes, Describe:		Yes		No	Х
Aquatic Organisms If Yes, Desc		Yes		No	X
Terrestrial Organism		Yes		No	X
		Riparian Charact	teristics		
Right: Wetlar	n Description (0' to 150 and 008-> wheat field do 008-> wheat field do 008-> wheat field)' from TOB):			
Associated Wetland If Yes, ID:	d Present: WL-008	Yes	X	No	
Associated Artificia	l Drain Present:	Yes		No	Х
	Jurisdictiona	al Connectivity/Sup	plemental Comme	nts:	
Flows through wet	land 008 and continue				



Stream Field ID:	Strea	m Stream 004							
Data Point ID:	DP-05	53 I	Date:	Aug 6,	2020		Project #:	200523	
Project Name: Evaluator(s):	South	Ripley Solar ar	nd Sto	orage Pro	ject		_		
County:	Chaut Count	tauqua tv					S	tate:	
Stream Name:									
State Classified:		Yes			No		N/A	Α	
If Yes, Classification: Lat: 42.195161°N Long: 79.743430°W									
Hydrologic Characteristics									
Flow Regime:		Perennial		X	Intermi	ttent		Ephemera	I
Surface Water:		Prese	ent	Х			Absent		
Perceptible Flow:		Prese	ent	Х			Absent		
Defined Banks:		Prese	ent	Х			Absent		
Water Depth at Tha	alweg:			6	<u> </u>	inche	es		
Wetted Perimeter V	Vidth:			4		feet			
El (0 l: 1 D:									
Flow/Gradient Direct	ction:			North					
				North orphologi		cteris	stics		
Primary Subs						cteris	tics		
				rphologi		cteris	tics		
				Prphologi Wic	c Chara	cteris	Max.		
Primary Subs		lass: Si		Prphologi Wic	c Chara	ecteris			
Primary Subs	trate C	lass: <u>Si</u> at DP		Prphologi Wic	c Chara Ith (ft.) Viin.	acteris	Max.		
Primary Subs Of Top of Bank Slope [Repor	HWM Bank ted as 45	at DP 6 12	lt	Wic	th (ft.) Min.	acteris	Max.		
Primary Subs Of Top of Bank Slope [Repor	HWM Bank	at DP 6 12	lt :Verti	Wic Wic cal(H:V)]:	th (ft.) Min. 6		Max.		
Primary Subs OH Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45	at DP 6 12	lt :Verti	Wic	th (ft.) Min. 6		Max.		
Primary Subs Of Top of Bank Slope [Repor	HWM Bank ted as 45	at DP 6 12	lt :Verti	Wic Wic cal(H:V)]:	th (ft.) Min. 6		Max.		
Primary Subs OH Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45	at DP 6 12	lt :Verti	Wic Wic cal(H:V)]:	th (ft.) Min. 6		Max.		
Primary Subs Of Top of Bank Slope [Repor Left: Right:	HWM Bank ted as 45	at DP 6 12	lt :Verti	Wic Wic cal(H:V)]:	th (ft.) Min. 6		Max.		
Primary Subs OH Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45	at DP 6 12	lt :Verti	Wic Wic cal(H:V)]:	th (ft.) Min. 6		Max.		



Habitat Characteristics								
Aquatic Vegetation Present: If Yes, Describe:	Yes	No	X					
Aquatic Organisms Observed If Yes, Describe:	d: Yes	No	X					
Terrestrial Organisms Obser If Yes, Describe:	ved: Yes	No	X					
	Riparian Chara	cteristics						
	tion (0' to 150' from TOB): 5 —> overgrown ag field 5 —> overgrown ag field							
Associated Wetland Present If Yes, ID: WL-015		X	No					
Associated Artificial Drain Pr If Yes, ID: AD-004		Х	No					
	Jurisdictional Connectivity/Su	upplemental Comments:						



Stream Field ID:	Stream Stream (005						
Data Point ID:	DP-055	Date: A	ug 6, 2020		Project #:	200523		
Project Name: Evaluator(s):	South Ripley Sola	ar and Storag	e Project					
County:	Chautauqua County				St	tate:		
Stream Name:								
State Classified:	Yes		No		N/A	A		
If Yes, Classification: Lat: 42.195319°N Long: 79.740983°W								
Hydrologic Characteristics								
Flow Regime:	Perennia	X	Intern	nittent		Ephemeral		
Surface Water:	F	Present	Χ		Absent			
Perceptible Flow:	F	Present	Χ		Absent			
Defined Banks:		Present	Х		Absent			
Water Depth at Tha	alweg:		4	_ inche	S			
Wetted Perimeter V	Vidth:	_	3	_ feet				
Flow/Gradient Direct	ction:		North					
			ologic Chai	acteris	tics			
Primary Subs	trate Class:	Silt						
			Width (ft.)					
	at D	ND.	Min.		Max.			
		′1	IVIIII.		IVIAA.			
OH	HWM 4	/1	3		5			
OH Top of	HWM 4							
Top of Bank Slope [Report Left:	HWM 4 Bank 6 ted as % or Horizo		3 5		5			
Top of Bank Slope [Report Left:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5 H:V)]:		5			
Top of Bank Slope [Repor Left: Right:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5	nmary	5			
Top of Bank Slope [Report Left:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5 H:V)]:	nmary	5			
Top of Bank Slope [Repor Left: Right:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5 H:V)]:	nmary	5			
Top of Bank Slope [Repor Left: Right:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5 H:V)]:	nmary	5			
Top of Bank Slope [Repor Left: Right:	HWM 4 Bank 6 ted as % or Horizo	ontal:Vertical(l	3 5 H:V)]:	mmary	5			



Habitat Characteristics								
Aquatic Vegetation Present: If Yes, Describe:	Yes No	X						
Aquatic Organisms Observed: If Yes, Describe:	Yes No	X						
Terrestrial Organisms Observed: If Yes, Describe:	Yes No.	X						
	Riparian Characteristics							
Riparian Vegetation Description (0 Right: Riparian wetland 015 Left: Riparian wetland 015 -	> overgrown ag field							
Associated Wetland Present: If Yes, ID: WL-015	Yes X	No						
Associated Artificial Drain Present: If Yes, ID: AD-005	Yes X	No						
Jurisd	lictional Connectivity/Supplemental Comments:							



Stream Field ID:	Strea						
Data Point ID:	DP-0	53 Date	e: Aug 6, 2020	Project #: 200523			
Project Name:	South	Ripley Solar and S	torage Project				
Evaluator(s):	Jame	s Ireland					
County:	Chau Coun	tauqua ty	_	State: NY			
Stream Name:	Unna	med Tributary to Tw	ventymile Creek				
State Classified:		Yes X	No	N/A			
If Yes, Classification: C Lat: 42.195161°N Long: 79.743430°W							
Hydrologic Characteristics							
Flow Regime:		Perennial	X Intermitten				
Surface Water:		Present	X	Absent			
Perceptible Flow:		Present	X	Absent			
Defined Banks:		Present	X	Absent			
Water Depth at Tha	alweg:		6 ind	ches			
Wetted Perimeter V	Width:		4 fee	et			
Flow/Gradient Dire	otion		North				
Tiow/Gradient Dire	Clion.		1401111				
Tiow/Gradient Dire	CHOII.		orphologic Characte	ristics			
Primary Subs				ristics			
				ristics			
			orphologic Characte	ristics Max.			
Primary Subs		class: Silt	orphologic Characte				
Primary Subs	strate C	at DP	Width (ft.) Min.	Max.			
Primary Subs OI Top of Bank Slope [Repor	HWM Bank	at DP	Width (ft.) Min. 6	Max. 8			
Ol Top of Bank Slope [Report Left:	HWM Bank ted as	at DP 6 12	Width (ft.) Min. 6	Max. 8			
Primary Subs OI Top of Bank Slope [Repor	HWM Bank ted as	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6 8 tical(H:V)]:	Max. 8 14			
Primary Subs Ol Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45 60	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6	Max. 8 14			
Primary Subs Of Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45 60	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6 8 tical(H:V)]:	Max. 8 14			
Primary Subs Ol Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45 60	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6 8 tical(H:V)]:	Max. 8 14			
Primary Subs Ol Top of Bank Slope [Report Left: Right:	HWM Bank ted as 45 60	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6 8 tical(H:V)]:	Max. 8 14			
Primary Subs OI Top of Bank Slope [Repor Left: Right: Right: Unstab	HWM Bank ted as 45 60	at DP 6 12 % or Horizontal:Ver	Width (ft.) Min. 6 8 tical(H:V)]:	Max. 8 14			



	Habitat Characteristics								
Aquatic Vegetation Present: If Yes, Describe:		Yes		No _	Х				
Aquatic Organisms Observed: If Yes, Describe:		Yes		No	X				
Terrestrial Organisms O		Yes		No	X				
	Ripar	ian Charact	teristics						
Right: Riparian W	escription (0' to 150' from T /L-015 —> overgrown ag f L-015 —> overgrown ag fi	field							
Associated Wetland Pro	esent: L-015	Yes	X	No					
Associated Artificial Dra	ain Present: D-004	Yes	Х	No					
	Jurisdictional Conne		•						
Was originally named \$	ST-004 but it is the same s	stream as S ⁻	Γ-008 that flows throu	ugh multiple p	properties.				



Stream Field ID:	Strea	ım 005								
Data Point ID:	DP-0	55	Date:	Aug 6,	2020		Project #:	20052	23	
Project Name:	South	n Ripley Solar	and Sto	orage Pro	oject					
Evaluator(s):	Jame	s Ireland								
County:	Chau Coun	tauqua ty					S	tate:	NY	
Stream Name:	Unna	med Tributary	to Twe	entymile (Creek					
State Classified:		Yes			No	Χ	N/	Α		
If Y Lat: <u>42.195319</u> °		ssification:			Long:	79.74	40983°W			
Hydrologic Characteristics										
Flow Regime:		Perennial		Х	Intermi	ttent		Ephe	emeral	
Surface Water:		Pre	sent)	(Absent			
Perceptible Flow:		Pre	sent)	(Absent			
Defined Banks:		Pre	sent)	(Absent			
Water Depth at The	alweg:		<u></u>		4	inche	es			
Wetted Perimeter \	Width:			;	3	feet				
Flow/Gradient Dire	ction:			Nort	h					
				rpholog	ic Chara	cteris	stics			
Primary Subs	strate C	class:	Silt							
				Wi	dth (ft.)					
		at DP			Min.		Max.			
0	HWM	4			3		5			
Top of	Bank	6			5		5			
Bank Slope [Repor			al:Verti	cal(H:V)]	:					
Left: Right:	30 de	egrees egrees							_	
Kight.	20 ue	grees	Da	ala Céalai	l:4 C				_	
Right: Unstab	le Ban	ks- Undercut k		nk Stabi	iity Suii	ımary				
Tagni. Onside	no Dan	no oridorout i	Zarino							
	Ja Da	ا ما اسطعید داد								
Left: Unstab	ne Ban	ks- Undercut k	oanks							



		Habitat Characteri	stics				
Aquatic Vegetation I		Yes		No	Х		
Aquatic Organisms (Yes [No	X		
Terrestrial Organism If Yes, Descr		Yes		No	Х		
		Riparian Character	istics				
Right: Riparia	Description (0' to 150' for wetland 015 —> overgo	grown ag field					
Associated Wetland If Yes, ID:	Present: WL-015	Yes	Х	No			
Associated Artificial If Yes, ID:		Yes	Х	No			
	Jurisdictional	Connectivity/Suppl	emental Comme	nts:			
Flows north into Stream 008. Flows north from AD-005 and ditch on other side of Route 6. Flows through Wetland 015. Has a riparian PSS wetland that extends out as a PEM wetland in the adjacent fields.							



Stream Field ID:	Strea	ım 008								
Data Point ID:	DP-0	59	Date:	Aug 7,	2020		Project #:	20052	23	
Project Name:	South	n Ripley Solar a	and Stor	age Pro	ject		_			
Evaluator(s):	Jame	s Ireland								
County:	Chau Coun	tauqua ty					S	State:	NY	
Stream Name:	Unna	med Tributary	to Twen	tymile C	reek					
State Classified:		Yes X			No		N/	Ά]
lf Y Lat: <u>42.196275</u> °l		ssification:)	〈		Long:	79.74	10906°W			
Hydrologic Characteristics										
Flow Regime:		Perennial	Х	(Intermit	tent		Ephe	meral	
Surface Water:		Pres	sent	Х			Absent			
Perceptible Flow:		Pres	sent	Х			Absent			
Defined Banks:		Pres	sent	Х			Absent			
Water Depth at Tha	alweg:		-	1	5	inche	es .			
Wetted Perimeter \	Width:		-	5	5	feet				
Flow/Gradient Dire	ction:			East						
				phologi	c Chara	cteris	stics			
Primary Subs	strate C	Class: S	Silt							
				Wid	dth (ft.)					
		at DP			Min.		Max.			
O	HWM	5			1		6			
Top of	Bank	6			2		10			
Bank Slope [Repor	ted as	% or Horizonta	al:Vertica	al(H:V)]:						
	35 de								_	
Right:	25 de	egrees							_	
5			Ban	k Stabil	ity Sum	mary				
Right: Unstab	ie-und	ercut banks								
Left: Unstab	le-und	ercut banks								



	Habita	at Characte	eristics				
Aquatic Vegetation Presented If Yes, Describe:	ent:	Yes		No [X		
Aquatic Organisms Obse If Yes, Describe:	erved: Frogs	Yes	X	No [
Terrestrial Organisms Ob If Yes, Describe:	oserved:	Yes		No	Х		
	Riparia	an Charact	eristics				
Riparian Vegetation Description (0' to 150' from TOB): Right: WL-015, willow and dogwood Left: WL-015, willow and dogwood							
Associated Wetland Pres If Yes, ID: WL-		Yes	X	No			
Associated Artificial Drain If Yes, ID: AD-		Yes	Х	No			
Jurisdictional Connectivity/Supplemental Comments:							
Was original called ST-006 but it's actually the same stream that we called ST-008 later on. It flows through a PSS/PEM riparian wetland through multiple properties.							



Stream Field ID:	Strea	ım 007						
Data Point ID:	DP-0	77	Date:	Aug 11, 202	20	Project #:	200523	
Project Name:	South	n Ripley Solar a	and Sto	rage Project				
Evaluator(s):	Jame	s Ireland						
County:	Chau Coun	tauqua ty				S	State: NY	
Stream Name:	Unna	med Tributary	to Twer	ntymile Creek	(
State Classified:		Yes		No [Х	N/	A	
If Yes, Classification: Lat: 42.195385°N Long: 79.738639°W								
			Hydr	ologic Chara	acteristic	S		
Flow Regime:		Perennial		Inte	rmittent	Х	Ephemeral	
Surface Water:		Pres	sent			Absent	Х	
Perceptible Flow:		Pres	sent			Absent	Х	
Defined Banks:		Pres	sent	Х		Absent		
Water Depth at The	alweg:		<u>-</u>	0	inche	es		
Wetted Perimeter \	Width:			0	feet			
Flow/Gradient Dire	ction:			North				
				phologic Ch	aracteris	stics		
Primary Subs	strate C	Class: S	Silt					
				Width (f	t.)			
		at DP		Min.		Max.		
0	HWM	3		2		4		
Top of	Bank	6		5		7		
Bank Slope [Repor	ted as 25 de		al:Vertic	al(H:V)]:				
Right:		grees						
			Ban	k Stability S	ummary	,		
Right: Unstab	le-und	ercut banks						
Left: Unstab	le-und	ercut banks						



		Habitat Characte	eristics				
Aquatic Vegetation If Yes, Desc		Yes		No	X		
Aquatic Organisms If Yes, Desc		Yes		No	X		
Terrestrial Organisr If Yes, Desc		Yes		No	X		
Riparian Characteristics							
Right: Riparia	n Description (0' to 150' an wetland —> upland c	leciduous forest					
Associated Wetland If Yes, ID:	d Present: WL-019	Yes	Х	No			
Associated Artificia If Yes, ID:	l Drain Present:	Yes		No	Х		
	Jurisdictional Connectivity/Supplemental Comments:						
	h an upland area and the thick the state of the thick the state of the		rains into WL-019	. Did not find a	direct connection		



Stream Field ID:	Strea	am 008					
Data Point ID:	DP-0	78 Da	ite: Aug 1	1, 2020		Project #: 200)523
Project Name:	South	n Ripley Solar and	Storage Pr	oject			
Evaluator(s):		es Ireland					
County:	Chau Coun	itauqua nty				State:	NY
Stream Name:	Unna	med Tributary of T	wentymile	Creek			
State Classified:		Yes X		No		N/A	
If Y Lat: <u>42.196456</u> °		assification: C		Long:	79.73	88634°W	
Hydrologic Characteristics							
Flow Regime:		Perennial	X	Intermi	tent	Ер	hemeral
Surface Water:		Presen	t Z	X		Absent	
Perceptible Flow:		Presen	t	X		Absent	
Defined Banks:		Presen	t Z	X		Absent	
Water Depth at The	alweg:			12	inche	S	
Wetted Perimeter \	Nidth:			2	feet		
Flow/Gradient Dire	ction:		Eas	t			
			morpholog	jic Chara	cteris	tics	
Primary Subs	strate C	Class: Silt					
			W	idth (ft.)			
		at DP		Min.		Max.	
0	HWM	2		2		4	
Top of	Bank	5		4		6	
Bank Slope [Repor	ted as	% or Horizontal:V	ertical(H:V)]:			
	65 de						<u></u>
Right:	60 de	egrees					
			Bank Stab	ility Sum	mary		
Right: Unstab	ole- Un	dercut banks					
Left: Unstab	le- Un	dercut banks					



	Habitat Charact	eristics					
Aquatic Vegetation Present: If Yes, Describe:	Yes		No	Х			
Aquatic Organisms Observed: If Yes, Describe:	Yes		No	X			
Terrestrial Organisms Observed: If Yes, Describe:	Yes		No	X			
Riparian Characteristics							
Riparian Vegetation Description (0' to 150' from Right: Phrag Left: Phrag	om TOB):						
Associated Wetland Present: If Yes, ID: WL- 019	Yes	Х	No				
Associated Artificial Drain Present: If Yes, ID:	Yes		No	X			
Jurisdictional C	onnectivity/Sup	plemental Comme	nts:				
Perennial stream that flows east throughout wetland.		-		A portion of			



Stream Field ID:	Strea	ım 009						
Data Point ID:	DP-0	84	Date:	Aug 17, 202	20	Project #:	200523	
Project Name:	South	n Ripley Solar	and Sto	rage Project		_		
Evaluator(s):	Jame	s Ireland						
County:	Chau Coun	tauqua ty				S	tate: NY	
Stream Name:	Unna	med Tributary	to Twer	ntymile Creek				
State Classified:		Yes		No [Х	N/.	A	
	If Yes, Classification: Lat: 42.195023°N Long: 79.737969°W							
			Hydr	ologic Chara		S		
Flow Regime:		Perennial		1	rmittent		Ephemeral	X
Surface Water:		Pre	sent			Absent	Х	
Perceptible Flow:		Pre	sent			Absent	Х	
Defined Banks:		Pre	sent	Х		Absent		
Water Depth at Tha	alweg:		_	0	inche	es		
Wetted Perimeter \	Width:			0	feet			
Flow/Gradient Dire	ction:			North				
				phologic Ch	aracteris	stics		
Primary Subs	strate C	class:	Silt					
				Width (f	t.)			
		at DP		Min.		Max.		
O	HWM	2		2		2		
Top of	Bank	3		3		3		
Bank Slope [Repor	ted as 30 de		al:Vertic	al(H:V)]:				
Right:		egrees						
			Ban	k Stability S	ummary			
Right: Unstab	le-und	ercut banks			-			
Left: Unstab	le-und	ercut banks						



		Habitat Characte	ristics				
Aquatic Vegetation If Yes, Descr		Yes		No [Х		
Aquatic Organisms Observed: If Yes, Describe:		Yes		No [Х		
Terrestrial Organism If Yes, Descr		Yes		No [Х		
		Riparian Characte	eristics				
Right: Decidu	Description (0' to 150' ous upland forest	from TOB):					
	·						
Associated Wetland If Yes, ID:	Present:	Yes		No	X		
Associated Artificial If Yes, ID:		Yes	Х	No			
Jurisdictional Connectivity/Supplemental Comments:							
Flows from AD-007 and flows north directly in to upland deciduous forested area. It then flattens out and doesn't connect to any of the other streams we mapped.							



Ditch Data Form

Ditch Field ID:									
Data Point ID:	DP-090			_	Date:	Aug 28, 2020			
Project Name:		Solar and Storage	e Project	_ Proj	ect #:	200523			
Evaluator(s):	James Ireland			_	_				
County:	Chautauqua C	ounty		_	State:	NY			
Jurisdictional:	Yes	No X							
Lat: 42.1	98300°N		Long:	-79.725974°W					
		Jurisdictiona	l Determina	tion Criteria					
Yes No				ional Attribute					
X	1) Defined Bed	and Bank/Channe							
Х	2) Ordinary High) Ordinary High Water Mark Present							
Х		ect Connection to		Navigable Water					
		ng Attributes (Must							
Х	- ' ' '	<u> </u>		or Standing Water					
Х	· · · · · · · · · · · · · · · · · · ·	Stream That Has E		<u> </u>					
Х		in a Jurisdictional							
Х	d) Connects	d) Connects Two or More Jurisdictional WOTUS							
Х		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW							
Hydrologic Characteristics									
Try and one of the control of the co									
Flow Regime:		Perennial		Intermittent		Ephemeral			
Surface Water:		Present		Absent X					
Perceptible Flo	w:	Present		Absent X					
Has Defined Ba	anks:	Yes	(No					
Water Depth at			0 inche						
Water Deptir at	Thalwog.			o .					
Wetted Perime	ter Width:		0 feet						
Flow/Gradient	Direction:	<u>N</u>	lorth			<u> </u>			
		Geomorph	ologic Char	acteristics					
Primary Substr	ate Class:			Silt		<u></u>			
	Γ		Width (feet	<u>, </u>					
		at DP	Min	Max					
	OHWM	1	2						
	Top of Bank	2	2	3					
Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:									
Left: 45 degrees									

Right: 45 degrees



Ditch Data Form

Data Point ID: DP-090

	Bank Stabil	ity Summary	
Left Bank:	Stable-vegetated banks		
Right Bank:	Stable-vegetated banks		
	Habitat Cha	aracteristics	
Aquatic Vegetation Prese If Yes, Describe:	ent:	Yes	No X
Aquatic Organisms Obse If Yes, Describe:	rved:	Yes	No X
Terrestrial Organisms Ob If Yes, Describe:	served:	Yes	No X
	Riparian Ch	aracteristics	
	cription (0' to 150' from TOB): hay field- recently mowed		
Right: _Active	hay field- recently mowed		
Associated Wetla If Yes, ID:	and Present:	Yes	No X
Associated Artifice If Yes, ID:	cial Drain(s) Present:	Yes	No X

Supplemental Notes & Comments:

Ditch that flows north through a small shrub line. Flows north but then flattened out prior to reaching WL-022



Stream Field ID:	Strea	ım Stream 010					
Data Point ID:	DP-0	97 Dat	e: Aug 18, 2020		Project #:	200523	
Project Name:	South	n Ripley Solar and S	Storage Project		-		
Evaluator(s):		s Ireland					
County:	Chau Coun	tauqua ty		_	St	ate: NY	
Stream Name:	Unna	med Tributary to Tv	wentymile Creek				
State Classified:		Yes	No	Χ	N/A	A	
If Your Lat: 42.198219°I		assification:	Long:	79.729	9759°W		
		Ну	drologic Charact	eristics			
Flow Regime:		Perennial	Interm	ittent		Ephemeral	Х
Surface Water:		Present			Absent	Х	
Perceptible Flow:		Present			Absent	Х	
Defined Banks:		Present	Х		Absent		
Water Depth at Tha	alweg:		0	inches	3		
Wetted Perimeter V	Width:		0	feet			
Flow/Gradient Dire	ction:		North				
Deiter and Oak	11- 6		norphologic Char	acterist	ics		
Primary Subs	strate C	Jass: Siit ai	nd Cobble mix				
			Width (ft.)				
		at DP	Min.		Max.		
Ol	HWM	1	1		3		
Top of	Bank	2	2		4		
		% or Horizontal:Ve	rtical(H:V)]:				
	65 de						
Diaht.							
Right:	50 de	egrees					
		В	Bank Stability Sur	nmary			
-			Bank Stability Sur	nmary			
		В	Bank Stability Sur	nmary			
		В	Bank Stability Sur	nmary			
Right: Unstab	ile- Un	В	Bank Stability Sur	nmary			



	Habitat Characteristics							
Aquatic Vegetation If Yes, Desc		Yes		No	Х			
Aquatic Organisms If Yes, Desc		Yes		No	X			
Terrestrial Organism		Yes		No	X			
		Riparian Charact	teristics					
Right: PEM V	n Description (0' to 150' for the Netland 023, boneset, journal of the Netland 023, b	e peeweed						
Associated Wetland If Yes, ID:	d Present: 023	Yes	Х	No				
Associated Artificial Drain Present: If Yes, ID:		Yes		No	Х			
Jurisdictional Connectivity/Supplemental Comments:								
Tributary that flows	s north into Stream 008.							



Stream Field ID:	Strea	am 011						
Data Point ID:	DP- ()98	Date:	Aug 18, 202	20	Project #:	200523	_
Project Name:	South	n Ripley Solar	and Sto	rage Project				
Evaluator(s):	Jame	es Ireland						
County:	Chau Coun	itauqua ity				S	tate: NY	
Stream Name:	Unna	med Tributary	to Twer	ntymile Creek				
State Classified:		Yes		No	Х	N/	Α	
If Y Lat: 42.199557°		assification:	X	Lon	g: 79.7	29557°W		
			Hydr	ologic Chara	cteristic	:S		
Flow Regime:		Perennial		Inte	rmittent	X	Ephemeral	
Surface Water:		Pre	esent			Absent	Х	
Perceptible Flow:		Pre	esent			Absent	Х	
Defined Banks:		Pre	esent	Х		Absent		
Water Depth at Th	alweg:			0	inche	es		
Wetted Perimeter	Width:			0	feet			
Flow/Gradient Dire	ection:			North				
				phologic Ch		stics		
Primary Sub	strate C	Class:	Silt, Cob	ble and Boul	der mix			
			1	Width (ft	i.)			
		at DP		Min.		Max.		
C	MWH	3		2		3		
Top of	Bank	7		5		8		
Bank Slope [Repo		% or Horizont	al:Vertic	al(H:V)]:				
Left: Right:	10 45							
Tagna			Ran	nk Stability S	ıımmarv			
Right: Unstal	ole- Sha	ale and under			anninai y			
3								
Left: Unstal	nle- Sh	ale and under	cut hank	s				
Leit. Onstal	010	aro aria ariacit	Jac Daille	•				



H	Habitat Charact	eristics					
Aquatic Vegetation Present: If Yes, Describe:	Yes		No	Х			
Aquatic Organisms Observed: If Yes, Describe:	Yes		No	X			
Terrestrial Organisms Observed: If Yes, Describe:	Yes		No _	X			
R	liparian Charac	teristics					
Riparian Vegetation Description (0' to 150' from Right: Upland shrub- witch hazel —> R	•	023- joe pye, bones	et				
Associated Wetland Present: If Yes, ID: WL-023	Yes	Х	No				
Associated Artificial Drain Present: If Yes, ID:	Yes		No	X			
Jurisdictional Connectivity/Supplemental Comments:							
Branch of Stream 008. Flows east and then		•					



Stream Field ID:	Strea	am 008						
Data Point ID:	DP-0	99 D	ate: Aug	18, 2020		Project #:	200523	
Project Name:	South	n Ripley Solar and	Storage	Project		_		
Evaluator(s):	Jame	es Ireland						
County:	Chau Coun	itauqua ity			_	S	tate: NY	
Stream Name:	Unna	med Tributary to	Twentymi	le Creek				
State Classified:		Yes X		No		N/A	Α	
If Y Lat: <u>42.200932</u> °l		assification: C		Long:	79.72	29241°W		
		ı	lydrologi	ic Charact	eristic	S		
Flow Regime:		Perennial		Interm	ittent	Х	Ephemera	ıl [
Surface Water:		Preser	nt	Χ		Absent		
Perceptible Flow:		Preser	nt			Absent	Х	
Defined Banks:		Preser	nt	Х		Absent		
Water Depth at Tha	alweg:			7	inche	es .		
Wetted Perimeter \	Width:			5	_ feet			
Flow/Gradient Dire	ction:	-	N	orth				
				ogic Char		stics		
Primary Subs	strate C	Class: Silt	Cobble a	and Boulde	r mix			
				Width (ft.)				
		at DP		Min.		Max.		
O	HWM	5		2		10		
Top of	Bank	9		3		15		
Bank Slope [Repor	ted as	% or Horizontal:\	ertical(H:	V)]:				
	45 de	· · · · · · · · · · · · · · · · · · ·						
Right:	90 06	egrees	D 1 01	1 1111 0				
Right: Unstab	No- Sh	ale, undercut ban		ability Sur	nmary			
Night. Ohstab	710- OH	aio, dilaciout ball	ισ					
l (i lleatel		alaada			·			
Left: Unstab	ne- Sna	ale, undercut ban	(S					



	Habi	tat Characte	eristics				
Aquatic Vegetation Presented If Yes, Describe:	ent:	Yes		No	X		
Aquatic Organisms Obse If Yes, Describe:		Yes	Х	No			
Terrestrial Organisms Ob If Yes, Describe:		Yes	Х	No			
	Ripar	ian Charact	eristics				
Riparian Vegetation Description (0' to 150' from TOB): Right: Upland deciduous/coniferous forested area- hemlock and sugar maples —> Wetland 023- joe pyeweed Left: Upland deciduous/coniferous forested area- hemlock and sugar maples —> Wetland 023- joe pyeweed							
Associated Wetland Pres If Yes, ID: 023	ent:	Yes	Х	No			
Associated Artificial Drain If Yes, ID:	n Present:	Yes		No	X		
Jurisdictional Connectivity/Supplemental Comments:							
Flows north through a Ps banks.	SS/PEM riparian wetland	d. The section	n of St-008 turns int	o more rocky ba	anks, with shale		



Stream Field ID:	Strea	am 012					
Data Point ID:	DP-1	05 Date	e: Aug 19, 2020		Project #: 200	0523	
Project Name:	South	h Ripley Solar and S	Storage Project		<u> </u>		
Evaluator(s):	Jame	es Ireland					
County:	Chau Cour	utauqua nty			States	: NY	
Stream Name:	Unna	amed Tributary to Tw	ventymile Creek				
State Classified:		Yes X	No		N/A		
	Lat: 42.202213°N Long: 79.731517°W Long: 79.731517°W						
		Ну	drologic Characte	ristic	S		
Flow Regime:		Perennial	Intermit	tent	X Ep	phemeral	
Surface Water:		Present			Absent	X	
Perceptible Flow:		Present			Absent	Х	
Defined Banks:		Present	X		Absent		
Water Depth at The	alweg:		0	inche)S		
Wetted Perimeter \	Width:		0	feet			
Flow/Gradient Dire	ction:		North				
			orphologic Chara	cteris	stics		
Primary Subs	strate C	Class: Silt ar	nd Cobble mix				
			Width (ft.)				
		at DP	Min.		Max.		
0	HWM	2	2		2		
Top of	Bank	4	4		4		
		% or Horizontal:Ver	rtical(H:V)]:				
	30 de						
Right:	45 de	egrees					
			ank Stability Sum	mary			
Right: Unstab	ole- Un	dercut Banks					
Left: Unstab	ole- Un	dercut Banks					



Habitat Characteristics								
Aquatic Vegetation Present: If Yes, Describe:	Yes	No	X					
Aquatic Organisms Observed: If Yes, Describe:	Yes	No	X					
Terrestrial Organisms Observed: If Yes, Describe:	Yes	No	X					
	Riparian Characteristics							
	nulti flora rose , sugar maples, spicebush							
Associated Wetland Present: If Yes, ID:	Yes	No	Х					
Associated Artificial Drain Present: If Yes, ID:	Yes	No	X					
Jurisdictio	onal Connectivity/Supplemental Commen	ts:						
Stream flows through an upland decid unnamed tributary of Twentymile Cree	uous forest. Flows north of the PSL but even	ntually flows in	nto another					

APPENDIX C Photographs of Representative Wetland, Stream and Upland Communities



Photo 1 Representative PEM Wetland Community



Photo 2 Representative PEM Wetland Community

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

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Photo 3 Representative PEM Wetland Community



Photo 4 Representative PFO Wetland Community

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

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Photo 5

Representative PFO Wetland Community



Photo 6

Representative PFO Wetland Community

South Ripley Solar Project
Town of Ripley, Chautauqua County, New York

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

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Photo 7 Representative PSS Wetland Community



Photo 8 Representative PSS Wetland Community

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

Sheet 4 of 15





Photo 9 Representative PSS Wetland Community



Photo 10 Representative POW Wetland Community

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

Sheet 5 of 15





Photo 11

Representative POW Wetland Community



Photo 12

Representative POW Wetland Community

South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Appendix C: Photographs of Representative Wetland, Stream and Upland Communities

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