Project/Site: Flat Creek Solar Pro	oject	City/County: Cana	joharie, Montgomery Cou	inty	Sampling Date: 20	21-Sept-02
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-E	ES-13_UPL-1
Investigator(s): Ethan Snyder, A	Abi Light		Section, Township,	Range: NA	4	
Landform (hillslope, terrace, etc.)): Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 3
Subregion (LRR or MLRA):	.RR L		Lat: 42.8626904	Long:_	-74.5405251	Datum: WGS84
Soil Map Unit Name: Churchvi	lle silty clay loam,	0 to 3 percent slope:	S		NWI classificatio	n:
Are climatic/hydrologic condition				(If no	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	turbed? Are "Norma	al Circumst	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally proble	ematic? (If needed,	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site map	showing samplin	g point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	? Yes	No _ _ _				
Hydric Soil Present?		No	Is the Sampled Area with	in a Wetlar	nd? Ye	s No⁄_
			· ·			<u> </u>
Wetland Hydrology Present?	•	No/	If yes, optional Wetland S	site iD:		
Remarks: (Explain alternative pro						
Covertype is UPL. Area is upland	l, not all three wetl	and parameters are	present.			
IVDDOLOCY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; cl	neck all that apply)		Secondary	/ Indicators (minimum	of two required)
•	·		.=	-	e Soil Cracks (B6)	•
Surface Water (A1)	_	_ Water-Stained Lea			ge Patterns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B1:			Frim Lines (B16)	
Saturation (A3)		_ Marl Deposits (B15			ason Water Table (C2))
Water Marks (B1)	_	_ Hydrogen Sulfide (-	sh Burrows (C8)	,
Sediment Deposits (B2)	_		eres on Living Roots (C3)	-	tion Visible on Aerial I	magery (C9)
Drift Deposits (B3)	_	_ Presence of Reduc			d or Stressed Plants (•
Algal Mat or Crust (B4)	_		tion in Tilled Soils (C6)		orphic Position (D2)	,
Iron Deposits (B5)	_	_ Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial I	magery (B7)	_ Other (Explain in R	emarks)		opographic Relief (D4	١
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5))
Field Observations:				rac-in	eutrar rest (D3)	
	Voc. No.	/ Donth /	inches).			
Surface Water Present?	Yes No _	•	·	-[
Water Table Present?	Yes No _		inches):	- Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes No _	<u>✓</u> Depth (inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	gauge monitorin	g well aerial nhotos	nrevious inspections) if a	availahle.		
Describe necorded Data (stream	r gauge, monitorin	g weii, aeriai priotos	, previous irispections), ire	avallable.		
Remarks:						
	aguis not mot No	nocitivo indication c	of watland budgalaguwas	obcon and		
The criterion for wetland hydrological	ogy is not met. No	positive indication c	n welland nydrology was c	observed.		

·				Ta		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
1				Total Number of Dominant Species		
2				- Across All Strata:	4	(B)
3				Percent of Dominant Species That	-	
4.				- Are OBL, FACW, or FAC:	25	(A/B)
5				Prevalence Index worksheet:		
6				- Total % Cover of:	Multiply	Bv:
7				- OBL species 0	x 1 =	<u>ру.</u> О
	0	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 40	x3=	120
1				FACU species 140	x 4 =	560
2.				· -	-	
3.					x 5 = _	0
4.				Column Totals 180	(A) _	680 (B)
5.				Prevalence Index = B/A =	3.8	
6.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	1
· ·		= Total Cov	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size:5 ft)			. .	3 - Prevalence Index is ≤ 3.0 ¹		
1. Poa pratensis	50	Yes	FACU	4 - Morphological Adaptations		supporting
Solidago canadensis	35	Yes	FACU	data in Remarks or on a separate s		
Euthamia graminifolia	30	Yes	FAC	Problematic Hydrophytic Vege		•
4. Symphyotrichum ericoides	30	Yes	FACU	Indicators of hydric soil and wetlar	-	gy must be
5. Centaurea jacea	25	No		present, unless disturbed or proble	matic	
	10		FACU	Definitions of Vegetation Strata:		
6. Solidago rugosa7.		No	FAC	Tree – Woody plants 3 in. (7.6 cm) o		diameter at
-				breast height (DBH), regardless of h	_	DDU and
8.				Sapling/shrub - Woody plants less to greater than or equal to 3.28 ft (1 m		DBH allu
9.				Herb – All herbaceous (non-woody)		gardless of
10.				size, and woody plants less than 3.2		gai diess oi
11				Woody vines – All woody vines grea		.28 ft in
12				height.		
	180	= Total Cov	er	Hydrophytic Vegetation Present?	Voc N	10 <i>(</i>
Woody Vine Stratum (Plot size: 30 ft)				Trydrophytic vegetation Fresent:	163 1	NO _ Z _
1				-		
2.				-		
3				-		
4				_		
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a sep	arate sheet.)			_		
No positive indication of hydrophytic vegetation wa		50% of dom	ninant speci	es indexed as FAC- or drier).		
	(· · · · · · · · · · · · · · · · · · ·		

	cription: (Describe	to the c	•			ndicator	or confirm the ab	osence of indicato	ors.)
Depth _	Matrix		Redox	k Feat	ures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Textu		Remarks
0 - 5.5	10YR 4/3	100					Silty Clay	/ Loam	
5.5 - 13	7.5YR 4/2	90	5YR 5/6	10	C	M	Silty (Clay	
13 - 18	10YR 4/2	85	5YR 5/8	15	C	M	Silty (Clay	-
¹Type: C = C	Concentration, D =	Depleti	on, RM = Reduced	d Mati	rix, MS =	Masked	Sand Grains, ² Lo	ocation: PL = Pore	Lining, M = Matrix.
Hydric Soil			,		<u> </u>				roblematic Hydric Soils³:
Histosol			Polyvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)		(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su						e Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck						Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surfac	
Stratifie	d Layers (A5)		<u></u> ✓ Depleted Ma	itrix (l	-3)				elow Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A1						•	urface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depre	essior	ıs (F8)			-	loodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)								ic (TA6) (MLRA 144A, 145, 149B)
_	ledox (S5)							Red Parent	
	d Matrix (S6)							Very Shallov	w Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	MLRA 14	19B)					Other (Expla	
3Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	y must be	e presen	t, unless disturbe	d or problematic.	
•	_ayer (if observed)					İ		·	
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):			•					
Remarks:						ı			•
	ndication of hydric	soil wa	s observed. The c	riterio	on for hyd	dric soil	is met.		
/ positive ii	idication of flyanc	3011 110	5 observed. The e	ricerie	711 101 11y	3116 3011	o met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject <u>City/County:</u> Can	ajoharie, Montgomery County	Sampling Date: 2021-Sept-03
Applicant/Owner: SunEast		State: New York	Sampling Point: W-EES-14_PEM-1
Investigator(s): Ethan Snyder, A	Abi Light	Section, Township, Range: 1	NA
Landform (hillslope, terrace, etc.)): Flat	Local relief (concave, convex, none)): Undulating Slope (%): 0 to 1
Subregion (LRR or MLRA): L	.RR L	Lat: 42.8661571 Long	g: <u>-74.5434327</u> Datum: WGS84
Soil Map Unit Name: Ilion silt l	oam, 0 to 3 percent slopes		NWI classification: None
Are climatic/hydrologic condition	is on the site typical for this time of ye	ar? Yes No (If r	no, explain in Remarks.)
Are Vegetation $\underline{\checkmark}$, Soil $\underline{\checkmark}$,	or Hydrology 🟒 significantly di		
Are Vegetation, Soil,	or Hydrology naturally probl	ematic? (If needed, explain a	any answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, transects, i	mportant features, etc.
Hydrophytic Vegetation Present	? Yes _ 🗸 No		
Hydric Soil Present?	Yes _ ✓ _ No	Is the Sampled Area within a Wetla	and? Yes/_ No
		<u>'</u>	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-EES-14
•	ocedures here or in a separate report		
	nd, all three wetland parameters are p	resent. Circumstances are not norm	nal due to agricultural activities.
Circumstances are not normal d	lue to mowing of vegetation.		
HYDROLOGY			
HIDROLOGI			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of	one is required; check all that apply)	<u>Seconda</u>	ary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Lea	Surfa	ace Soil Cracks (B6)
High Water Table (A2)	Water-stained Lea	/ I)rair	nage Patterns (B10)
Saturation (A3)	Aquatic Fauria (BI Marl Deposits (B1	MOSS	s Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide	Odor (C1) — Dry-s	Season Water Table (C2)
Sediment Deposits (B2)	, ,	heres on Living Roots (C3) — Cray	fish Burrows (C8)
Drift Deposits (B3)	Presence of Redu	Satili	ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	ited or Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck Surface	Geor	morphic Position (D2)
Inundation Visible on Aerial I		Pamarks) — Shall	low Aquitard (D3)
Sparsely Vegetated Concave		_ <u>√</u> MICLO	otopographic Relief (D4)
		FAC-	Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No Depth	(inches):	
Water Table Present?	Yes No Depth	(inches): Wetland	d Hydrology Present? Yes No
Saturation Present?	Yes No / Depth	(inches):	
(includes capillary fringe)			
		inin	
Describe Recorded Data (stream	n gauge, monitoring well, aerial photo	s, previous inspections), if available:	
Remarks:			
	and the same Annual table of the discretion of the same	Alam dibandon la managa aban aman di Cabila	
The criterion for wetland hydrolo	ogy is met. A positive indication of we	tland hydrology was observed (at lea	ast two secondary indicators).

Troo Stratum (Blot size: 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant S	Species That	3	(A)	
1				Are OBL, FACW, or FAC			(^\)	
2.				Total Number of Domii	nant Species	3	(B)	
3.				Across All Strata:				
4.				Percent of Dominant S		100	(A/B)	
5.				Are OBL, FACW, or FAC				
6.				Prevalence Index work			_	
7.				Total % Cover		<u>Multiply</u>	•	
	0	= Total Cov	er	OBL species	55	x 1 = _	55	
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	90	x 2 = _	180	
1.				FAC species	40	x 3 = _	120	
2.				FACU species	10	x 4 =	40	
3.				UPL species	0	x 5 = _	0	
4.				Column Totals	195	(A) _	395 (B)	
5.				Prevalence Ir	ndex = B/A =	2		
6.				Hydrophytic Vegetation	n Indicators:			
7.				1- Rapid Test for I	Hydrophytic V	egetation/	ı	
··	0	= Total Cov	<u> </u>	2 - Dominance Te	st is >50%			
Herb Stratum (Plot size: 5 ft)		- Total Cov	CI	3 - Prevalence Inc	lex is $\leq 3.0^1$			
1. Phalaris arundinacea	50	Yes	FACW	4 - Morphological	•	-	supporting	
2. Carex vulpinoidea	40	Yes	OBL	data in Remarks or on	•	-		
3. Symphyotrichum lanceolatum	30	Yes	FACW	Problematic Hydr			•	
4. Setaria pumila	20	No	FAC	¹ Indicators of hydric so present, unless disturb		-	gy must be	
5. Euthamia graminifolia	20	No	FAC	Definitions of Vegetation		Tiacic		
6. Lythrum salicaria	15	No	OBL	Tree - Woody plants 3		more in	diameter at	
7. Symphyotrichum novae-angliae	10	No	FACW	breast height (DBH), re			alameter at	
8. Centaurea jacea	5	No	FACU	Sapling/shrub - Woody	_	_	DBH and	
9. Arrhenatherum elatius	5	No	FACU	greater than or equal t	•			
10.				Herb – All herbaceous	(non-woody)	plants, re	gardless of	
11				size, and woody plants	less than 3.2	8 ft tall.		
12				Woody vines - All wood	dy vines great	ter than 3	.28 ft in	
	195	= Total Cov	or	height.				
Woody Vine Stratum (Plot size:30 ft)	133	·	Ci	Hydrophytic Vegetatio	n Present? \	∕es <u> </u>	lo	
1.								
2.								
3.								
4.								
*	0	= Total Cov	or					
		- 10tal C0V	E1					

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Desc	cription: (Describe	to the	depth needed to	docum	ent the i	ndicator	or confirm the	absence of indicators.)	
Depth	Matrix		Redox	k Feati	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2		Texture	Remarks
0 - 8.5	10YR 3/1	90	5YR 5/8	10	С	M	Org ma	atter Clay Loam	
8.5 - 18	5YR 5/2	75	5YR 5/8	20	C	M		Clay	-
8.5 - 18			10YR 6/1	5		M	S	Sandy Clay	
				_				_	
									-
								_	
							-		
		- —		-					
		- —		- —					
		- —		- —					
l .						. .			
	Concentration, D =	Deplet	ion, RM = Reduce	d Matı	rix, MS =	Masked	Sand Grains. ²	Location: PL = Pore Linin	
Hydric Soil								Indicators for Probler	matic Hydric Soils³:
Histoso			Polyvalue B					2 cm Muck (A10) ((LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Si					Coast Prairie Red	ox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucl			(LRR K, I	_)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7)	(LRR K, L)
	d Layers (A5) d Below Dark Surfa	oco (A1	✓ Depleted M					Polyvalue Below S	Surface (S8) (LRR K, L)
	ark Surface (A12)	1 A) 93k	Depleted Da			1		Thin Dark Surface	
	Aucky Mineral (S1)		Redox Depr			•		Iron-Manganese I	Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)				.5 (. 5)				lain Soils (F19) (MLRA 149B)
-	Redox (S5)								5) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent Mater	
	urface (S7) (LRR R, M	ΛΙ DΔ 1	/QR)					Very Shallow Dark	
Dark 30	irrace (37) (ERR IV, IV	ILIVA I	430)					Other (Explain in	Remarks)
3Indicators	of hydrophytic veg	etatior	n and wetland hyd	rology	y must be	e presen	t, unless disturb	oed or problematic.	
Restrictive I	Layer (if observed):								
	Type:		None	_		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive in	ndication of hydric	soil wa	as observed. The o	riterio	n for hy	dric soil i	is met.		
	•				,				



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar	Project	City/County: Canaj	oharie, Montgomery Cour	mery County Sampling Date: 2021-Sept-03				
Applicant/Owner: SunEast			State: New	York Sam	pling Point: W-EES-	14_UPL-1		
Investigator(s): Ethan Snyde	er, Abi Light		Section, Township, F	Range: NA				
Landform (hillslope, terrace, e	tc.): Hillslope	L	 ocal relief (concave, conve	ex, none): Und	lulating	Slope (%): 1 to 10		
Subregion (LRR or MLRA):	LRR L		Lat: 42.8659301	Long: -74.5		Datum: WGS84		
Soil Map Unit Name: Darie	n silt loam. 3 to 8 pe	ercent slopes			NWI classification:			
Are climatic/hydrologic condit			? Yes / No	(If no. exp	olain in Remarks.)			
Are Vegetation _ ✓, Soil	• •	/ significantly dist		l Circumstance		s No _ _ _		
Are Vegetation, Soil		/ naturally proble			swers in Remarks.)	<u> </u>		
0 == =	_ ,		, ,	, ,	•			
SUMMARY OF FINDINGS	– Attach site mar	p showing sampling	g point locations, tran	sects, impor	tant features, et	с.		
Hydrophytic Vegetation Prese	ent? Yes	s No _ _/ _						
Hydric Soil Present?	Yes	s No	Is the Sampled Area withi	n a Wetland?	Yes _	No⁄_		
Wetland Hydrology Present?		i	If yes, optional Wetland Si					
Remarks: (Explain alternative			Tyes, optional Wedana si	ite ib.				
HYDROLOGY								
Wetland Hydrology Indicators		1 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			,	c		
Primary Indicators (minimum	of one is required;	check all that apply)		-	icators (minimum of	two required)		
Surface Water (A1)	_	Water-Stained Leav	es (B9)		il Cracks (B6)			
High Water Table (A2)	_	Aquatic Fauna (B13))	Drainage Pa				
Saturation (A3)	-	Marl Deposits (B15)		Moss Trim	n Water Table (C2)			
Water Marks (B1)	-	Hydrogen Sulfide O	dor (C1)	Crayfish Bu				
Sediment Deposits (B2)	-	•	res on Living Roots (C3)		Visible on Aerial Ima	agery (C9)		
Drift Deposits (B3)	-	Presence of Reduce			Stressed Plants (D1)	-		
Algal Mat or Crust (B4)	-		on in Tilled Soils (C6)		ic Position (D2)	,		
Iron Deposits (B5)		Thin Muck Surface (Shallow Aq	uitard (D3)			
Inundation Visible on Aeri		Other (Explain in Re	marks)		graphic Relief (D4)			
Sparsely Vegetated Conca	ve surface (bo)			FAC-Neutra	al Test (D5)			
Field Observations:								
Surface Water Present?	Yes No	Depth (ir	iches):					
Water Table Present?	Yes No	Depth (ir	nches):	Wetland Hydro	ology Present?	Yes No		
Saturation Present?	Yes No		nches):					
(includes capillary fringe)								
Describe Recorded Data (stre	am gauge, monitori	ing well, aerial priotos,	previous inspections), ii a	valiable.				
Remarks:						_		
The criterion for wetland hyd	rology is not met. N	lo positive indication of	wetland hydrology was o	bserved.				

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
· -	% Cover	Species?	Status	Number of Dominant Species Th	at 0	(A)
1				Are OBL, FACW, or FAC: Total Number of Dominant Speci		
2.				Across All Strata:	2	(B)
3.				Percent of Dominant Species Tha	t	
4				Are OBL, FACW, or FAC:	0	(A/B)
5				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	By:
7		 -		OBL species 0	x 1 =	0
	0	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 135	x 4 =	540
2				UPL species 30	x 5 =	150
3				Column Totals 165	(A)	690 (B)
4				Prevalence Index = B/A	_ ``	
5				Hydrophytic Vegetation Indicator		·
6				1- Rapid Test for Hydrophyt		n
7				2 - Dominance Test is > 50%	_	•
	0	= Total Cove	er	3 - Prevalence Index is ≤ 3.0		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptatio		sunnorting
1. Poa pratensis	75	Yes	FACU	data in Remarks or on a separate		supporting
2. Daucus carota	30	Yes	UPL	Problematic Hydrophytic Ve		xplain)
3. <i>Taraxacum officinale</i>	20	No	FACU	¹Indicators of hydric soil and wet	_	•
4. Schedonorus pratensis	15	No	FACU	present, unless disturbed or prob	-	8,
5. Vicia americana	15	No	FACU	Definitions of Vegetation Strata:		
6. Oxalis stricta	10	No	FACU	Tree – Woody plants 3 in. (7.6 cm	or more in	diameter at
7.				breast height (DBH), regardless o	f height.	
8.				Sapling/shrub – Woody plants les	s than 3 in.	DBH and
9.				greater than or equal to 3.28 ft (1	m) tall.	
10.				Herb – All herbaceous (non-wood		gardless of
11.				size, and woody plants less than		
12.				Woody vines – All woody vines gr	eater than 3	3.28 ft in
	165	= Total Cove	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present	Yes 1	No <u>_</u>
1.						
2.						
3.						
4.						
	0	= Total Cove	er			
Described the described and the second secon		-				
Remarks: (Include photo numbers here or on a separat		500/ - f -l		and trade and the SAC and data as		
No positive indication of hydrophytic vegetation was of	oservea (≥	50% of dom	inant specie	es indexed as FAC+ or drier).		

Profile Desc	cription: (Describe t	to the	depth needed to	docun	nent the	indicato	r or confirm the a	absence of indicato	ors.)
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ture	Remarks
0 - 11	10YR 4/2	90	2.5YR 4/6	10	C	М	Silt L	.oam	
11 - 18	10YR 5/2	85	5YR 5/6	10	С	М	Silty Cla	ny Loam	
11 - 18			10YR 5/1	5		M	Silty Cla		
		_						.,	
		-							
				. —					
		- —		. —					
		- —		. —					
		- —		. —					
¹Type: C = C	Concentration, D = I	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² l	ocation: PL = Pore	Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pi	roblematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow S	Surface (S	8) (LRR	R, MLRA 149B)		•
	oipedon (A2)		Thin Dark Su						A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucl						e Redox (A16) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Gley					•	Peat or Peat (S3) (LRR K, L, R)
Stratifie	d Layers (A5)		_✓ Depleted Ma	atrix (F3)			Dark Surface	
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)				elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted Da	ırk Su	rface (F7)			nese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depr	essior	ns (F8)			_	oodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)								c (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent I	
Stripped	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, M	ILRA 1	49B)					Other (Expla	
								•	
-	of hydrophytic veg		n and wetland hyd	rolog	y must b	e preser	it, unless disturbe	ed or problematic.	
Restrictive I	Layer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive in	ndication of hydric	soil wa	as observed. The o	riterio	on for hy	dric soil	is met.		
					_				

Soil Photos



Project/Site: Flat Creek Solar Pro	oject	City/County: Can	ajoharie, Montgomery Count	County Sampling Date: 2021-Sept-01			
Applicant/Owner: SunEast			State: New Y	ork Sampli	Sampling Point: W-EES-15_PEM-1		
Investigator(s): Ethan Snyder,	Abi Light		Section, Township, Ra	ange: NA			
Landform (hillslope, terrace, etc.)): Flat		Local relief (concave, convex	, none): Undul	ating	Slope (%): 0 to 1	
Subregion (LRR or MLRA): L	.RR L	_	Lat: 42.8648604	Long: -74.53	99463	Datum: WGS84	
Soil Map Unit Name: Darien si	lt loam, 3 to 8	percent slopes		N	WI classification:		
Are climatic/hydrologic condition	s on the site ty	ypical for this time of ye	ear? Yes No	(If no, explai	in in Remarks.)		
Are Vegetation $\underline{\checkmark}$, Soil $\underline{\checkmark}$,	or Hydrolo	ogy 🟒 significantly di	sturbed? Are "Normal o	Circumstances"	present? Y	es No _ _ /	
Are Vegetation, Soil,	or Hydrolo	ogy naturally prob	lematic? (If needed, ex	plain any answ	ers in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site m	nap showing sampli	ng point locations, trans	ects, importa	nt features, e	tc.	
Hydrophytic Vegetation Present	? }	Yes _ ✓ _ No					
Hydric Soil Present?		Yes/_ No	Is the Sampled Area within a	a Wetland?	Yes	✓_ No	
		/es No	If yes, optional Wetland Site		W-EE		
Wetland Hydrology Present?				iD.	VV-EE	5-15	
Remarks: (Explain alternative pr		•					
Covertype is PEM. Area is wetlar	id, all three we	etland parameters are p	oresentOTHER Hay field.	•			
LIVEROLOCY							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is require	ed; check all that apply)	<u>Se</u>	econdary Indica	tors (minimum o	of two required)	
Surface Water (A1)		Water-Stained Le	aves (R9)	_ Surface Soil C	racks (B6)		
High Water Table (A2)		Aquatic Fauna (B		✓ Drainage Patt			
✓ Saturation (A3)		Marl Deposits (B1	5) —	_ Moss Trim Lin			
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	_ Dry-Season W			
Sediment Deposits (B2)		Oxidized Rhizosp	heres on Living Roots (C3)	_ Crayfish Burro		(60)	
Drift Deposits (B3)		Presence of Redu	ced Iron ((4)		ible on Aerial Im ressed Plants (D1	-	
_✓ Algal Mat or Crust (B4)		Recent Iron Redu	ction in Tilled Soils (C6)	_ Stuffled of Sti _ Geomorphic F	=)	
Iron Deposits (B5)		Thin Muck Surfac		_ Geomorphic i _ Shallow Aquit			
Inundation Visible on Aerial I		Other (Explain in	Remarks) —		phic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)			✓ FAC-Neutral T	•		
Field Observations:							
Surface Water Present?	Yes N	No <u>✓</u> Depth	(inches):				
Water Table Present?	Yes N	No √ Depth	(inches):	etland Hydrolo	gy Present?	Yes No	
				,	6 ,		
Saturation Present?	Ves / N	Jo Denth	(inches):				
Saturation Present?	Yes 🔽 N	No Depth	(inches):				
(includes capillary fringe)		•		-: - - -			
		•		ailable:			
(includes capillary fringe)		•		ailable:			
(includes capillary fringe)		•		ailable:			
(includes capillary fringe)		•		ailable:			
(includes capillary fringe) Describe Recorded Data (stream	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	
(includes capillary fringe) Describe Recorded Data (stream Remarks:	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	
(includes capillary fringe) Describe Recorded Data (stream Remarks:	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	
(includes capillary fringe) Describe Recorded Data (stream Remarks:	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	
(includes capillary fringe) Describe Recorded Data (stream Remarks:	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	
(includes capillary fringe) Describe Recorded Data (stream Remarks:	n gauge, monit	oring well, aerial photo	s, previous inspections), if ava		secondary indica	tors were present).	

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant		_	
1.	// co.c.	ореспер.	Status	Are OBL, FACW, or FAC		2	(A)
2.				Total Number of Domi	nant Species	2	(D)
3.				Across All Strata:			(B)
4.				Percent of Dominant S Are OBL, FACW, or FAC	•	100	(A/B)
5				Prevalence Index work			
6				Total % Cover	of:	Multiply	By:
7				OBL species	100	x 1 =	100
	0	= Total Cove	er	FACW species	45	x 2 =	90
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	30	x 3 =	90
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	175	(A)	280 (B)
4				Prevalence I	ndex = B/A =	1.6	
5				Hydrophytic Vegetatio	n Indicators:	· <u></u>	
6				1- Rapid Test for		/egetation	า
7				✓ 2 - Dominance Te		280141101	•
	0	= Total Cove	er	✓ 3 - Prevalence Inc			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica		¹ (Provide	supporting
1. <i>Carex vulpinoidea</i>	50	Yes	OBL	data in Remarks or on			
2. <i>Scirpus atrovirens</i>	45	Yes	OBL	Problematic Hyd			xplain)
3. Juncus tenuis	30	No	FAC	¹Indicators of hydric so			-
4. <i>Phalaris arundinacea</i>	25	No	FACW	present, unless disturb	oed or problei	matic	
5. <i>Carex scoparia</i>	20	No	FACW	Definitions of Vegetati	on Strata:		
6. <i>Echinochloa muricata</i>	5	No	OBL	Tree - Woody plants 3	in. (7.6 cm) or	r more in	diameter at
7				breast height (DBH), re	_	_	
8				Sapling/shrub - Wood			DBH and
9				greater than or equal t			
10				Herb – All herbaceous			gardless of
11				size, and woody plants			20.6
12				Woody vines – All woo	dy vines great	ter than 3	3.28 ft in
	175	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u>)	·			Hydrophytic Vegetation	on Present? \	Yes <u> </u>	No
1							
2.							
3.							
4.							
		= Total Cove	-r				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Des	cription: (Describe t	o the	depth needed to	docun	nent the	indicato	r or confirm the a	bsence of indicators.)
Depth	Matrix		Redox	(Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0 - 9.5	10YR 4/1	90	5YR 5/6	10	C	М	Silty Clay	
9.5 - 16	10YR 4/1	80	5YR 5/8	15		M	Clay	
9.5 - 16	· · · · · · · · · · · · · · · · · · ·	· —	10YR 6/1	5		M	Clay	Compacted
3.3 10			1011(0/1				Clay	Compacted
							-	
	-	-		. —				
		. —		. —			-	
		. —		. —				
	-							
¹Type: C = 0	Concentration, D = I	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	elow S	Surface (S	8) (LRR	R. MLRA 149B)	·
	pipedon (A2)		Thin Dark Si					2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucl					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gley					
Stratifie	ed Layers (A5)		_✓ Depleted M	atrix (F3)			Dark Surface (S7) (LRR K, L)
Deplete	ed Below Dark Surfa	ice (A1	1) Redox Dark	Surfa	ce (F6)			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Da	ark Su	rface (F7)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depr	essior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, N	ILRA 1	49B)					Other (Explain in Remarks)
								•
	of hydrophytic veg		n and wetland hyd	Irolog	y must b	e preser	nt, unless disturbe	d or problematic.
Restrictive	Layer (if observed):							
	Type:		Heavy clay	•		Hydric	Soil Present?	Yes No
	Depth (inches):		9.5					
Remarks:								
A positive i	ndication of hydric	soil wa	as observed. The o	riteri	on for hy	dric soil	is met.	
	•							
1								



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject City/C	County: Canajoharie, Montgomery	County Samplin	ng Date: 2021-Sept-01
Applicant/Owner: SunEast		State:	New York Sampling	Point: W-EES-15_UPL-1
Investigator(s): Ethan Snyder,	Abi Light	Section, Towns	hip, Range: NA	
Landform (hillslope, terrace, etc.)): Flat	Local relief (concave, c	convex, none): Undulatir	ng Slope (%): 0 to 1
Subregion (LRR or MLRA):	.RR L	Lat: 42.865078	B7 Long: -74.53996	669 Datum: WGS84
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 percent slo	pes	NWI	classification:
Are climatic/hydrologic condition	is on the site typical for th	is time of year? Yes 🗸	No (If no, explain i	n Remarks.)
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology 🟒 sig	gnificantly disturbed? Are "No	ormal Circumstances" pro	esent? Yes No
Are Vegetation, Soil,	or Hydrology na	turally problematic? (If need	ded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showi	ng sampling point locations, t	transects, important	features, etc.
Hydrophytic Vegetation Present	? Yes No	o_ ✓		
Hydric Soil Present?	Yes 🔽 No	Is the Sampled Area v	within a Wetland?	Yes No/_
Wetland Hydrology Present?	Yes No	i	nd Site ID:	
	·		na site ib.	
Remarks: (Explain alternative pr	·	•		
	· ·	rameters are present. Circumstanc	es are not normal due to	agricultural activities.
Circumstances are not normal of	lue to mowing of vegetati	on.		
HYDROLOGY				
HIDROLOGI				_
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required; check all	that apply)	Secondary Indicator	rs (minimum of two required)
•	·		Surface Soil Crac	
Surface Water (A1)		r-Stained Leaves (B9)	Drainage Patterr	
High Water Table (A2)		tic Fauna (B13)	Moss Trim Lines	
Saturation (A3)		Deposits (B15)	Dry-Season Wate	
Water Marks (B1)	•	ogen Sulfide Odor (C1)	Cravfish Burrow	
Sediment Deposits (B2)		zed Rhizospheres on Living Roots (C	3) -	le on Aerial Imagery (C9)
Drift Deposits (B3)		nce of Reduced Iron (C4)	Stunted or Stres	
Algal Mat or Crust (B4)		nt Iron Reduction in Tilled Soils (C6)	Geomorphic Pos	
Iron Deposits (B5)		Muck Surface (C7)	Shallow Aquitard	
Inundation Visible on Aerial	Imagery (B7) Other	(Explain in Remarks)	Microtopograph	
Sparsely Vegetated Concave	Surface (B8)		FAC-Neutral Test	
Field Observations:			FAC-Neutral Test	1 (D3)
Surface Water Present?	Yes No _ _/ _	Depth (inches):		
Water Table Present?	Yes No	Depth (inches):	Wetland Hydrology	Present? Yes No
Saturation Present?	Yes No	Depth (inches):		
			—	
(includes capillary fringe)				<u> </u>
Describe Recorded Data (strean	າ gauge, monitoring well,	aerial photos, previous inspections), if available:	
Remarks:				
The criterion for wetland hydrol	ogy is not met. No positiv	e indication of wetland hydrology w	vas observed.	

Tues Chushium (Dish sine) 20 ft)	Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC		0	(A)
2.				Total Number of Domir			
3.				Across All Strata:		2	(B)
1.				Percent of Dominant S	pecies That	0	(A/B)
5,				Are OBL, FACW, or FAC			(A/B)
5.				Prevalence Index work	sheet:		
7.				- <u>Total % Cover</u>	of:	Multiply	By:
		= Total Cove	or	- OBL species	0	x 1 =	0
anling/Chruh Ctratum (Plat size) 1F ft)		_ TOTAL COVE	=1	FACW species	15	x 2 =	30
apling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
·				FACU species	175	x 4 =	700
				- UPL species	0	x 5 =	0
3				- Column Totals	190	(A)	730 (B)
l				- Prevalence Ir	ndex = B/A =	3.8	
				Hydrophytic Vegetation	n Indicators:		,
i				1- Rapid Test for H		egetation	1
'.				2 - Dominance Te		-8	
	0	= Total Cove	er	3 - Prevalence Ind			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		(Provide	supporting
. Poa pratensis	60	Yes	FACU	- data in Remarks or on	•	-	
. Centaurea jacea	55	Yes	FACU	Problematic Hydr	ophytic Vege	tation¹ (E:	xplain)
3. Galium aparine	30	No	FACU	Indicators of hydric so	il and wetlan	d hydrolo	gy must be
l. Oxalis stricta	15	No	FACU	_ present, unless disturb	ed or probler	matic	
5. Phalaris arundinacea	15	No	FACW	Definitions of Vegetation	n Strata:		
5. <i>Taraxacum officinale</i>	10	No	FACU	Tree – Woody plants 3	in. (7.6 cm) or	more in	diameter at
7. Trifolium repens	5	No	FACU	breast height (DBH), re	gardless of h	eight.	
3.				Sapling/shrub - Woody	plants less tl	han 3 in. l	DBH and
9.				greater than or equal t			
0.				Herb – All herbaceous			gardless of
11.				size, and woody plants			
2.				Woody vines – All wood	dy vines great	er than 3	.28 ft in
	190	= Total Cove	er	height.			
Noody Vine Stratum (Plot size:30 ft)		=		Hydrophytic Vegetatio	n Present? \	/es	No 🟒
2.				-			
3.				-			
1.				-			
·		= Total Cove	er e	-			

	cription: (Describe	to the d				ndicato	or confirm the a	absence of indicato	ors.)
Depth	Matrix		Redox						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Text	ture	Remarks
0 - 5	10YR 4/2	100					Silty Cla	ay Loam	
5 - 15	10YR 4/1	80	5YR 5/6	20	C	M	Cl	ay	
			•	_				_	
				_					
	-			_					
	-								
	-								
¹Type: C = 0	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² L	Location: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck ((A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLR	A 149B)		e Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, I	_)		Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface	
	ed Layers (A5)		_ <u>✓</u> Depleted Ma						elow Surface (S8) (LRR K, L)
	ed Below Dark Surf	face (A1							urface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	essior	ıs (F8)			_	oodplain Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)								c (TA6) (MLRA 144A, 145, 149B)
Sandy I	Redox (S5)							Red Parent l	
Strippe	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, I	MLRA 14	19B)					Other (Expla	
31	- 6 h -						A contrar district	•	
-	of hydrophytic veg		and wetland nyd	rolog	/ must be	e presen	t, uniess disturbe	ed or problematic.	
Restrictive	Layer (if observed)):				l			
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive i	ndication of hydric	soil wa	s observed. The c	riterio	n for hy	dric soil	is met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



	ject City/Co	unty: Canajoharie, Montgomery Cou	nty Sampling Date	2021-Sept-03	
Applicant/Owner: SunEast		State: Nev	v York Sampling Point:	W-EES-16_PEM-1	
Investigator(s): Ethan Snyder,	Abi Light	Section, Township,	Range: NA		
Landform (hillslope, terrace, etc.)	: Swale	Local relief (concave, conv	rex, none): Concave	Slope (%): 1 to 3	
Subregion (LRR or MLRA): L	RR L	Lat: 42.8683256	Long: -74.543213	Datum: WGS84	
Soil Map Unit Name: Darien si	lt loam, 3 to 8 percent slope	es	NWI classif	ication: None	
Are climatic/hydrologic condition	s on the site typical for this	time of year? Yes No	(If no, explain in Rem	arks.)	
Are Vegetation, Soil,	or Hydrology 🟒 signi	ificantly disturbed? Are "Norma	al Circumstances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology natu	rally problematic? (If needed,	explain any answers in Rer	narks.)	
SUMMARY OF FINDINGS - A	ttach site map showing	g sampling point locations, trar	nsects, important featu	res, etc.	
Hydrophytic Vegetation Present	? Yes <u></u> ✓ No _				
Hydric Soil Present?	Yes No _	İ	n a Wetland?	Yes/_ No	
Wetland Hydrology Present?	Yes No	,		W-EES-16	
			ite iD.	AA-EE2-10	
Remarks: (Explain alternative pro	•	·			
Covertype is PEM. Area is wetlar	id, all three wetland parame	eters are present. excavated, disturbe	ed soils .		
LIVEROLOCY					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all th	<u>nat apply)</u>	Secondary Indicators (min	imum of two required)	
Surface Water (A1)	✓ Water- [©]	Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)		: Fauna (B13)	✓ Drainage Pafferns (B1		
✓ Saturation (A3)	•	eposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)		en Sulfide Odor (C1)	Dry-Season Water Tabl	e (C2)	
Sediment Deposits (B2)		d Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)	(CO)	
Drift Deposits (B3)		ce of Reduced Iron (C4)	✓ Saturation Visible on A	• •	
		Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Pla		
Algal Mat or Crust (B4)	Recent	iron Reduction in Tilled 30ils (Co)	C		
		uck Surface (C7)	Geomorphic Position (I		
Algal Mat or Crust (B4)	Thin Mu		Shallow Aquitard (D3)	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Mu magery (B7) Other (B	uck Surface (C7)	Shallow Aquitard (D3) Microtopographic Relie	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave	Thin Mu magery (B7) Other (B	uck Surface (C7)	Shallow Aquitard (D3)	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations:	Thin Mu magery (B7) Other (B Surface (B8)	uck Surface (C7) Explain in Remarks)	Shallow Aquitard (D3) Microtopographic Relie	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present?	Thin Mu magery (B7) Other (B Surface (B8)	uck Surface (C7) Explain in Remarks) Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5)	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present?	Thin Mu Other (E Surface (B8) Yes No No Yes No No No No No No	Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Thin Mu magery (B7) Other (B Surface (B8)	uck Surface (C7) Explain in Remarks) Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5)	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No	Depth (inches): Depth (inches): Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No	Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No	Depth (inches): Depth (inches): Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No	Depth (inches): Depth (inches): Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No	Depth (inches): Depth (inches): Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2)	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches):	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠ No	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Oepth (inches): Oerial photos, previous inspections), if a	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠_ No	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Oepth (inches): Oerial photos, previous inspections), if a	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠_ No	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Oepth (inches): Oerial photos, previous inspections), if a	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠ No	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Oepth (inches): Oerial photos, previous inspections), if a	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠ No	
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Thin Mu magery (B7) Other (B Surface (B8) Yes No Yes No Yes No an gauge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Oepth (inches): Oerial photos, previous inspections), if a	Shallow Aquitard (D3) Microtopographic Relie FAC-Neutral Test (D5) Wetland Hydrology Preser	D2) ef (D4) ent? Yes _∠ No	

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test work Number of Dominant Are OBL, FACW, or FA	Species That	2	(A)
1					otal Number of Dominant Species cross All Strata:		(B)
4.				Percent of Dominant Are OBL, FACW, or FA		100	(A/B)
5.				Prevalence Index wor	ksheet:		
6.				Total % Cove	er of:	<u>Multiply</u>	<u> Ву:</u>
7				OBL species	75	x 1 =	75
	0	= Total Cov	er	FACW species	70	x 2 =	140
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				FACU species	0	x 4 =	0
				UPL species	0	x 5 =	0
3				Column Totals	145	(A)	215 (B)
4				Prevalence	Index = B/A =	1.5	
5				Hydrophytic Vegetation	on Indicators		,
6					✓ 1- Rapid Test for Hydrophytic \ ✓ 2 - Dominance Test is >50%		
7				*			
	0	= Total Cov	er	✓ 3 - Prevalence In			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica		(Provide	supporting
1. Scirpus cyperinus	65	Yes	OBL	data in Remarks or or	•	•	9-1-1-1-1-1
2. Carex scoparia	50	Yes	FACW	Problematic Hyd	Irophytic Vege	tation¹ (E	xplain)
3. Symphyotrichum lanceolatum	15	No	FACW	¹Indicators of hydric s			-
4. Lythrum salicaria	10	No	OBL	present, unless distur	bed or proble	matic	
5. Bidens frondosa	5	No	FACW	Definitions of Vegetat	ion Strata:		
6				Tree - Woody plants 3	3 in. (7.6 cm) oi	more in	diameter at
7				breast height (DBH), r	egardless of h	eight.	
8.				Sapling/shrub - Wood	dy plants less t	han 3 in.	DBH and
9.				greater than or equal	to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous		•	gardless of
11.				size, and woody plant			
12.				Woody vines – All woo	ody vines grea	ter than 3	3.28 ft in
	145	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetati	on Present? `	∕es <u> ∕_</u>	No
1.							
2.							
3.							
4.							
•	0	= Total Cov		·			

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Description: (Describe t	to the	•			indicator	or confirm the a	bsence of indicators.)
Depth Matrix		Redox				- .	
(inches) Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 11.5 10YR 5/1	90	5YR 4/4	10	<u>C</u>	<u>M</u>	Clay	
11.5 - 18 10YR 5/3	85	5YR 5/4	10	C	M	Clay	
11.5 - 18	- —	2.5Y 5/1	5	D	M	Clay	
¹ Type: C = Concentration, D = I	Depleti	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Be	elow S	urface (S	8) (LRR R	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Su	ırface	(S9) (LRF	R, MLRA	\ 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)		Loamy Muck	ky Min	eral (F1)	(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)		_ <u>✓</u> Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surfa	ice (A1						Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)		Depleted Da			1		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)		Redox Depr	essior	IS (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, M	ILRA 14	49B)					Other (Explain in Remarks)
³ Indicators of hydrophytic veg	etation	and wetland hyd	Irolog	y must b	e presen	t, unless disturbe	d or problematic.
Restrictive Layer (if observed):							
Type:		Heavy clay			Hydric :	Soil Present?	Yes No
Depth (inches):		11.5					
Remarks: A positive indication of hydric	soil wa	is observed. The o	riterio	on for hy	dric soil i	s met.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject C	ity/County: Canajoh	narie, Montgomery Co	ounty	Sampling Date: 202	21-Sept-03		
Applicant/Owner: SunEast			State: N	lew York	Sampling Point: W-EE	S-16_UPL-1		
Investigator(s): Ethan Snyder,	Abi Light		Section, Townshi	ip, Range: N	IA			
Landform (hillslope, terrace, etc.): Flat	Loc	cal relief (concave, co	nvex, none):	Undulating	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	.RR L		Lat: 42.86829	Long:	-74.5432	Datum: WGS84		
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 percen	it slopes			NWI classificatio	n: None		
Are climatic/hydrologic conditior	is on the site typical fo	or this time of year?	Yes N	No (If no	o, explain in Remarks.)			
Are Vegetation, Soil <u></u> ✓,	or Hydrology	_ significantly distur	bed? Are "Nor	mal Circums	stances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology	_ naturally problem	atic? (If neede	ed, explain ar	ny answers in Remarks	.)		
SUMMARY OF FINDINGS – A	Attach site map sh	owing sampling	point locations, tr	ansects, in	nportant features,	etc.		
Hydrophytic Vegetation Present		_ No			•			
		i	Alaa Camamlad Awaaii	:4h: \A/-4l	d2 Va.	a Na (
Hydric Soil Present?		i i	the Sampled Area wi		nu; te:	s No⁄_		
Wetland Hydrology Present?	Yes	_No _∠ If	yes, optional Wetland	d Site ID:				
Covertype is UPL. Area is upland	I, not all three wetland	d parameters are pr	esent. soils historical	lly excavated	, disturbed .			
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	f one is required: chec	rk all that annly)		Secondar	ry Indicators (minimum	of two required)		
Timary marcators (minimam of	one is required, chec	.к ан спас арргуд			ce Soil Cracks (B6)	rortwo required)		
Surface Water (A1)		Vater-Stained Leaves	; (B9)		Drainage Patterns (B10)			
High Water Table (A2)		quatic Fauna (B13)			Trim Lines (B16)			
Saturation (A3)		Marl Deposits (B15)	(C1)		eason Water Table (C2))		
Water Marks (B1)		lydrogen Sulfide Odd		Crayfi	ish Burrows (C8)			
Sediment Deposits (B2)		resence of Reduced	es on Living Roots (C3	Satura	ation Visible on Aerial I	magery (C9)		
Drift Deposits (B3) Algal Mat or Crust (B4)		ecent Iron Reduction		Stunte	ed or Stressed Plants (I	D1)		
Iron Deposits (B5)		hin Muck Surface (C			norphic Position (D2)			
Inundation Visible on Aerial		ther (Explain in Rem	·		ow Aquitard (D3)			
Sparsely Vegetated Concave		rener (Explain III nen			topographic Relief (D4))		
				FAC-N	leutral Test (D5)			
Field Observations:		5 4 6						
Surface Water Present?	Yes No	•	nes):					
Water Table Present?	Yes No _ _ /	Depth (inc	nes):	Wetland	Hydrology Present?	Yes No		
Saturation Present?	Yes No	Depth (inc	hes):					
(includes capillary fringe)								
Describe Recorded Data (stream	n gauge, monitoring w	vell, aerial photos, pi	revious inspections),	if available:				
Remarks:								
The criterion for wetland hydrol	laguis not mot No no	sitive indication of w	etland hydrology ws	a absorted				
The criterion for wetland hydroi	ogy is not met. No po	isitive indication of w	retiand hydrology wa	as observed.				

T C: . (D) . : 20.6 \	Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC		0	(A)
2.				Total Number of Domir			
2. 3.				Across All Strata:	•	2	(B)
4.				Percent of Dominant S	pecies That	0	(A/B)
··				Are OBL, FACW, or FAC			(A/b)
5. 5.				Prevalence Index work	sheet:		
5. 7.				<u>Total % Cover</u>	of:	Multiply	By:
·		- Total Cave		- OBL species	5	x 1 =	5
Carling (Charle Charles (Diet siese 45 ft)	0	= Total Cove	er	FACW species	0	x 2 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
·				- FACU species	125	x 4 =	500
				- UPL species	0	x 5 =	0
B				- Column Totals	130	(A)	505 (B)
l				Prevalence Ir	ndex = B/A =	3.9	
·				Hydrophytic Vegetation	Indicators:		,
j				1- Rapid Test for H		egetation	า
'.				2 - Dominance Te		cgctatioi	•
	0	= Total Cove	er	3 - Prevalence Ind			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		(Provide	sunnarting
. Centaurea jacea	45	Yes	FACU	- data in Remarks or on	•	•	sapporting
2. Potentilla simplex	30	Yes	FACU	Problematic Hydr	•		xplain)
3. Lotus tenuis	25	No	FACU	- ¹Indicators of hydric so			
4. Solidago canadensis	15	No	FACU	present, unless disturb		,	6)
S. Symphyotrichum ericoides	10	No	FACU	Definitions of Vegetation			
5. Scirpus atrovirens		No	OBL	Tree – Woody plants 3		more in	diameter at
7.				breast height (DBH), re			
3.				Sapling/shrub - Woody			DBH and
9.				greater than or equal t	o 3.28 ft (1 m) tall.	
0.				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
2.				Woody vines – All wood	dy vines great	er than 3	3.28 ft in
· · ·	130	= Total Cove	or .	height.			
Noody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetatio	n Present? Y	/es I	No 🟒
1.							
·				-			
3.				-			
				-			
4. <u> </u>		- Total Cave		-			
	0	= Total Cove	=1				

Profile Des Depth	•	to the	depth needed to			indicator	or confirm the al	osence of indicators.)
(inches)	Matrix Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks
0 - 9.5	10YR 4/2	90	5YR 5/8	8	Type¹ C	M	Silty Clay	Remarks
0 - 9.5	1011/4/2	- 30	10YR 6/1	2				
	10VD 2/2		5YR 5/6		C		Silty Clay	
9.5 - 18	10YR 3/3	80		15		<u>M</u>	Clay	
9.5 - 18	-	- —	2.5Y 5/1	_5_	D	<u>M</u>	Clay	
	-	- —						
				. —				
		- —						
		- —						
		- —		. —				
¹Type: C = 0	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked :	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow S	Surface (S	8) (LRR R	, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark S	urface	(S9) (LRF	R, MLRA	149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Mucl	ky Mir	neral (F1)	(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			Dark Surface (S7) (LRR K, L)
	ed Layers (A5)		_ <u>✓</u> Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
	ed Below Dark Surfa	ace (A1						Thin Dark Surface (S9) (LRR K, L)
l ——	ark Surface (A12)		Depleted Da)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depr	essior	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Sເ	urface (S7) (LRR R, M	ILRA 1	49B)					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	etatior	n and wetland hyd	drolog	y must b	e present	t, unless disturbe	d or problematic.
Restrictive	Layer (if observed):							
	Type:		None			Hydric 9	Soil Present?	Yes _ ✓_ No
	Depth (inches):			-				
Remarks:						1		
	ndication of hydric	soil wa	as observed. The o	criteri	on for hy	dric soil i	s met.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject <u>City/County:</u> Can	nty: Canajoharie, Montgomery County Sampling Date: 2021-Sept-03				
Applicant/Owner: SunEast		State: New York	k Sampling Point: W	-EES-17_PEM-1		
Investigator(s): Ethan Snyder,	Abi Light	Section, Township, Rang	ge: NA			
Landform (hillslope, terrace, etc.)): Swale	Local relief (concave, convex, no	one): Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	RR L	Lat: 42.8678665 L	Long: -74.5413767	Datum: WGS84		
Soil Map Unit Name: Darien si	ilt loam, 0 to 3 percent slopes		NWI classifica	ti on : None		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ar? Yes _✓ No	_ (If no, explain in Remark	s.)		
Are Vegetation, Soil <u></u> ✓,	or Hydrology 🟒 significantly dis		cumstances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed, expla	ain any answers in Remar	ks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, transect	ts, important feature	s, etc.		
Hydrophytic Vegetation Present	? Yes 🗸 No					
Hydric Soil Present?	Yes No	Is the Sampled Area within a W	Vetland? Yetland?	es No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	· •	V-EES-17		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of ✓ 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 I — Sparsely Vegetated Concave	Presence of Redu Recent Iron Reduc Thin Muck Surface Imagery (B7) Other (Explain in F	aves (B9) (3) (5) Odor (C1) heres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7) Remarks)	ondary Indicators (minimus Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C Crayfish Burrows (C8) Saturation Visible on Aeria Stunted or Stressed Plants Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (E	C2) al Imagery (C9) s (D1)		
Field Observations:						
Surface Water Present?	Yes No Depth	(inches): 1				
Water Table Present?	Yes No _ _/ Depth	(inches): Wetl	land Hydrology Present?	Yes No		
Saturation Present?		(inches):	2 33	-		
(includes capillary fringe)	Рериг					
	n gauge, monitoring well, aerial photo					
Remarks: The criterion for wetland hydrol	ogy is met. A positive indication of we	tland hydrology was observed (բ	primary and secondary in	dicators were present).		

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Specie	es That	2	(4)
1	_			Are OBL, FACW, or FAC:	_		(A)
2.				Total Number of Dominant S	Species	2	(B)
3.				Across All Strata:	-		(D)
4.				Percent of Dominant Species Are OBL, FACW, or FAC:	s That	100	(A/B)
5.				Prevalence Index worksheet	:		
5				Total % Cover of:		Multiply	By:
7				OBL species 10	05	x 1 =	105
	0	= Total Cov	er	FACW species	5	x 2 =	10
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
·				FACU species (0	x 4 =	0
2				UPL species (0	x 5 =	0
3				Column Totals 1	10	(A)	115 (B)
1				Prevalence Index =		1	(-/
j				Hydrophytic Vegetation India			
5.				1- Rapid Test for Hydro		ogotation	
7				2 - Dominance Test is >		egetatioi	I
	0	= Total Cov	er	✓ 3 - Prevalence Index is			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adap		(Provide	supporting
1. <u>Typha latifolia</u>	45	Yes	OBL	data in Remarks or on a sep	arate sh	eet)	
2. Scirpus cyperinus	25	Yes	OBL	Problematic Hydrophy	tic Veget	ation¹ (Ex	(plain)
3. Leersia oryzoides	20	No	OBL	¹ Indicators of hydric soil and	d wetland	d hydrolo	gy must be
4. Lythrum salicaria	15	No	OBL	present, unless disturbed or	r problen	natic	
S. Salix bebbiana	5	No	FACW	Definitions of Vegetation Str	ata:		
j				Tree – Woody plants 3 in. (7.	.6 cm) or	more in	diameter at
'				breast height (DBH), regardle	ess of he	eight.	
3				Sapling/shrub – Woody plan			DBH and
)				greater than or equal to 3.28			
0				Herb – All herbaceous (non-			gardless of
1				size, and woody plants less t			
2.				Woody vines – All woody vin	es great	er than 3	.28 ft in
	110	= Total Cov	er	height.			
Noody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Pre	esent? Y	es 🔽 N	No
i.							
2.				•			
3.							
4.							
		= Total Cov	or	•			

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of $hydrophytic\ vegetation\ was\ observed\ (Prevalence\ Index\ is \le 3.00).\ A\ positive\ indication\ of\ hydrophytic\ vegetation\ was\ observed\ (Rapid\ Test\ for\ New York of the New York of$ Hydrophytic Vegetation).

Profile Des	cription: (Describe	to the	depth needed to	docun	nent the	indicato	r or confirm the a	bsence of indicators.)
Depth	Matrix		Redox	(Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 12	10YR 5/1	85	7.5YR 4/6	15	C	M	Silty Clay	
12 - 18	10YR 4/3	75	5YR 5/6	20		M	Clay	
12 - 18			2.5Y 6/1	5		M	Clay	
	-			<u> </u>				
		- —						
		- —						
		- —						
¹Type: C = 0	Concentration, D =	 Deplet	ion. RM = Reduce	d Mat	rix. MS =	Masked	Sand Grains. 21	ocation: PL = Pore Lining, M = Matrix.
	Indicators:	Берісс	ion, nor neddec	a mac	11,7,1413	Maskea	Saria Granis. E	Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	alow S	iurfaco (S	(Q) (I DD	D MIDA 1/OR)	·
	pipedon (A2)		Thin Dark Si					2 cm Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Mucl				=	Coast Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley			(LIXIX IX, I	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	ed Layers (A5)		Depleted M					Dark Surface (S7) (LRR K, L)
	ed Below Dark Surfa	ace (A1						Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	100 (711	Depleted Da			١		Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
-	-		Redox Depi	C33101	13 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Material (F21)
	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R, M	ILRA 1	49B)					Other (Explain in Remarks)
3Indicators	of hydrophytic veg	atation	and wetland hyd	Irolog	v must h	a nracar	nt unless disturbe	•
			rand Wetland Hyd	ii olog	y must b	I Preser	it, uriless disturbe	d of problematic.
Restrictive	Layer (if observed):						c !! D	V
	Type:		None	•		Hyaric	Soil Present?	Yes No
	Depth (inches):							
Remarks:								
A positive i	ndication of hydric	soil wa	as observed. The o	riteri	on for hy	dric soil	is met.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Cana	ty: Canajoharie, Montgomery County Sampling Date: 2021-Sept-03					
Applicant/Owner: SunEast			State: New	w York	Sampling Point: W-E	ES-17_UPL-1		
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: N	A			
Landform (hillslope, terrace, etc.)): Flat		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	.RR L		Lat: 42.8678923	Long:	-74.5413144	Datum: WGS84		
Soil Map Unit Name: Darien s	ilt loam, 0 to 3 perc	ent slopes			NWI classification	n: None		
Are climatic/hydrologic condition	s on the site typica	l for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)			
Are Vegetation, Soil <u></u> ✓,	or Hydrology _	significantly dis	turbed? Are "Norma	al Circumst	tances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology _	naturally proble	ematic? (If needed,	explain an	y answers in Remarks	i.)		
SUMMARY OF FINDINGS – A	Attach site map	showing samplin	g point locations, tran	nsects, im	portant features,	etc.		
Hydrophytic Vegetation Present	-	No	1					
			la de Carrela d'Arra a reide	14/-41	- da - V-	. No.		
Hydric Soil Present?		No	Is the Sampled Area with	iin a Wetiar	nd? Ye	s No <u></u> /		
Wetland Hydrology Present?	Yes _	No _ _ _	If yes, optional Wetland S	Site ID:				
Remarks: (Explain alternative pr	ocedures here or ir	n a separate report)						
Covertype is UPL. Area is upland	not all three wetl	and parameters are	present soils excavated	disturbed				
Covertype is UPL. Area is upland	i, not all three wetli	and parameters are	present. soils excavated, o	disturbed .				
HYDROLOCY								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required: ch	neck all that apply)		Secondan	y Indicators (minimum	of two required)		
- Time y marcacors (minimarir or	one is required, cr	reck an that apply)		-	e Soil Cracks (B6)	ror two required;		
Surface Water (A1)		_ Water-Stained Lea	ves (B9)					
High Water Table (A2)		_ Aquatic Fauna (B13	3)	Drainage Patterns (B10) Moss Trim Lines (B16)				
Saturation (A3)		_ Marl Deposits (B15	5)					
Water Marks (B1)		_ Hydrogen Sulfide (Odor (C1)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Oxidized Rhizosph	eres on Living Roots (C3)	ts (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	_	Presence of Reduc	ed Iron (C4)					
Algal Mat or Crust (B4)		Recent Iron Reduct	tion in Tilled Soils (C6)		ed or Stressed Plants ((וט		
Iron Deposits (B5)		_ Thin Muck Surface	(C7)		orphic Position (D2)			
Inundation Visible on Aerial	Imagery (B7)	_ _ Other (Explain in R	emarks)		w Aquitard (D3)			
Sparsely Vegetated Concave			,	Microt	copographic Relief (D4	.)		
sparsely vegetated contave	Juliuce (DO)			FAC-N	eutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes No _	✓ Depth (i	inches):					
Water Table Present?	Yes No _	✓ Depth (i	inches):	Wetland F	Hydrology Present?	Yes No _ _ ✓		
				-	., a. 0.08, 000			
Saturation Present?	Yes No _	<u>✓</u> Depth (inches):	=				
(includes capillary fringe)								
Describe Recorded Data (strean	n gauge, monitoring	g well, aerial photos	, previous inspections), if a	available:				
	00.,	, . , ,	,,					
Remarks:								
The criterion for wetland hydrol	ogy is not met. No	nositive indication o	of wetland hydrology was o	ohserved				
The chieffort for wedand flydror	ogy is not met. No	positive indication c	n wedana nyarology was c	observed.				

				_			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1.				Are OBL, FACW, or FAC		0	(A)
2.				Total Number of Domi			
3.				Across All Strata:	·	2	(B)
·				Percent of Dominant S	pecies That		(A (D)
4				Are OBL, FACW, or FAC	:	0	(A/B)
5				Prevalence Index work	sheet:		
6				Total % Cover	of:	Multiply	<u>By:</u>
7				OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	10	x 3 =	30
1				FACU species	155	x 4 =	620
2				UPL species	0	x 5 =	0
3				Column Totals	165	(A)	650 (B)
4.				Prevalence Ir		3.9	(2)
5							
6				Hydrophytic Vegetation		.	
7.				1- Rapid Test for I		regetation	1
	0	= Total Cove	er	2 - Dominance Te			
Herb Stratum (Plot size:5 ft)		_		3 - Prevalence Inc			
1. Centaurea jacea	50	Yes	FACU	4 - Morphological	•	-	supporting
2. Lotus tenuis	45	Yes	FACU	data in Remarks or on	•	•	
3. Potentilla simplex	30	No	FACU	Problematic Hydr			•
4. Solidago canadensis	20	No	FACU	¹ Indicators of hydric so present, unless disturb		-	gy must be
5. Euthamia graminifolia	10	No	FAC	-		Hauc	
6. Plantago lanceolata	10	No	FACU	Definitions of Vegetation			al:aa.a.a.a.a.a.a.
7.			TACO	Tree – Woody plants 3 breast height (DBH), re			diameter at
8.				Sapling/shrub – Woody	-	_	DBH and
9.				greater than or equal t			DDITANA
10				Herb – All herbaceous			gardless of
10.				size, and woody plants			gar aress or
11.				Woody vines – All woo			3.28 ft in
12				height.	,		
	165	= Total Cove	er	Hydrophytic Vegetation	n Drocont2 \	/oc I	No. /
Woody Vine Stratum (Plot size:30 ft)				Tiyuropriyac vegetado	ni riesent: i	163 1	VO
1							
2.							
3							
4							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separat	te sheet.)			_			
No positive indication of hydrophytic vegetation was ol		50% of dom	inant specie	es indexed as FAC- or dr	ier).		
The positive materials of the property are regarded. Thus of		2070 01 00	a. ie specie		, .		

Profile Des	•	to the	depth needed to			indicato	r or confirm the al	sence of indicators.)
(inches)	Matrix Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks
0 - 9.5	10YR 4/2	90	5YR 4/4	10	Type¹ C	M	Silty Clay	Remarks
9.5 - 16	10YR 4/2	85	7.5YR 5/6	15				
9.5 - 10	1018 4/1	65	7.518 5/6	15		<u>M</u>	Clay	
		- —		_				
		- —						
		- —						
		- —						
		- —						
							_	
¹Type: C = 0	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be	elow S	Surface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	oipedon (A2)		Thin Dark S					Coast Prairie Redox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Mucl					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			Dark Surface (S7) (LRR K, L)
Stratifie	d Layers (A5)		_✓ Depleted M	atrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A1						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da)		Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depr	essior	ıs (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Material (F21)
Strippe	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, M	ILRA 1	49B)					Other (Explain in Remarks)
³ Indicators	of hydrophytic veg	etatior	n and wetland hyd	Irolog	y must b	e preser	nt, unless disturbe	•
	Layer (if observed):		,		,	i i	•	· · · · · · · · · · · · · · · · · · ·
	Type:		None			Hydric	Soil Present?	Yes No
	Depth (inches):		TTOTIC			liyane	Jon 1 reserie.	163 <u>-y</u> 110
Remarks:	Deptil (iliches).					1		<u> </u>
A positive i	ndication of hydric	soil wa	as observed. The o	criterio	on for hy	dric soil	is met.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	ject City/Co	ounty: Canajoharie, Montgor	mery County	Sampling Date: 202	21-Sept-03		
Applicant/Owner: SunEast		St	ate: New York	Sampling Point: W-EES-18_PUB-1			
Investigator(s): Ethan Snyder, A	Abi Light	Section, T	ownship, Range: N	IA			
Landform (hillslope, terrace, etc.)	: Depression	Local relief (conc	ave, convex, none):	Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA): L	RR L	Lat: 42.86	8542 Long:	-74.540944	Datum: WGS84		
Soil Map Unit Name: Ilion silt l	oam, 0 to 3 percent slopes	i		NWI classification	n: None		
Are climatic/hydrologic condition	s on the site typical for this	s time of year? Yes	No (If n	o, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology sign	nificantly disturbed? Ar	re "Normal Circums	stances" present?	Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology nati	urally problematic? (If	needed, explain a	ny answers in Remarks.)		
SUMMARY OF FINDINGS – A	ttach site map showin	ng sampling point location	ons, transects, ir	nportant features, e	etc.		
Hydrophytic Vegetation Present	? Yes <u></u> ✓ No						
Hydric Soil Present?	Yes <u>✓</u> No	j	rea within a Wetla	nd? Ves	No		
		i ·					
Wetland Hydrology Present?	Yes No _	, , ,	vetland Site ID:	W-E	ES-18		
Remarks: (Explain alternative pro	•	•					
Covertype is PUB. Area is wetlan	d, all three wetland param	eters are present.					
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; check all t	that annly)	Seconda	y Indicators (minimum	of two required)		
Trimary maicacors (minimum or	one is required, check air t	пасарлут		ce Soil Cracks (B6)	or two required)		
_ <u>✓</u> Surface Water (A1)		Stained Leaves (B9)		age Patterns (B10)			
<u></u> High Water Table (A2)	·	c Fauna (B13)		oss Trim Lines (B16)			
✓ Saturation (A3)		eposits (B15)			ason Water Table (C2)		
Water Marks (B1)		gen Sulfide Odor (C1)	Cravf	h Burrows (C8)			
Sediment Deposits (B2)		ed Rhizospheres on Living Ro	10fs ((3)	ation Visible on Aerial Ir	magery (C9)		
Drift Deposits (B3)		ice of Reduced Iron (C4)	Stunt	ed or Stressed Plants (D	-		
Algal Mat or Crust (B4)		Iron Reduction in Tilled Soils	s (C6)	norphic Position (D2)	•		
Iron Deposits (B5)		luck Surface (C7)	Shallo	ow Aquitard (D3)			
✓ Inundation Visible on Aerial I		(Explain in Remarks)	Micro	topographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)		FAC-N	leutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):	36				
Water Table Present?	Yes _ ✓ _ No	Depth (inches):	0 Wetland	Hydrology Present?	Yes No		
Saturation Present?	Yes No	Depth (inches):	0				
(includes capillary fringe)							
Describe Recorded Data (stream	gauga manitaring wall a	orial photos provious inspos	tions) if availables				
Describe Recorded Data (stream	gauge, monitoring well, a	eriai priotos, previous irispec	cions), ii available.				
Remarks:							
The criterion for wetland hydrol	nav is met A nositive indic	ation of wetland hydrology w	as observed (prima	ary and secondary indic	ators were present).		
	ogy is friet. A positive indica						
	ogy is met. A positive mater	, 0,					
	ogy is met. A positive mate	,					
	ogy is met. A positive mate	, 0					
	ogy is met. A positive mate	, 0					
	ogy is met. A positive mate						

	Absolute	Dominant	Indicator	Dominance Test works	sheet:			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Species?	Status	Number of Dominant	•	1	(A)	
1				Are OBL, FACW, or FAC			`	
2				Total Number of Domi	mant species	1	(B)	
3				Percent of Dominant S	Species That			
4				- Are OBL, FACW, or FAC	•	100	(A/B)	
5				Prevalence Index work	sheet:			
6				- <u>Total % Cover</u>	r of:	Multiply E	<u>Ву:</u>	
7				- OBL species	60	x 1 =	60	
5 1: 451 1.5: 4.701 1: 45.6:)	0	= Total Cov	er	FACW species	0	x 2 =	0	
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0	
1				- FACU species	0	x 4 =	0	
2.				- UPL species	0	x 5 =	0	
3.				- Column Totals	60	(A)	60 (B)	
4				Prevalence I	ndex = B/A =	1		
5.				Hydrophytic Vegetatio	n Indicators:			
6.				1- Rapid Test for	Hydrophytic V	egetation		
7		- Total Cau		2 - Dominance Test is >50%				
Howh Chustum (Diet sine) - F.ft.	0	= Total Cov	er	3 - Prevalence In	dex is $\leq 3.0^1$			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>) 1. <i>Ceratophyllum demersum</i>	50	Yes	OBL	4 - Morphologica			supporting	
Ceratophyliam demersum Lemna minor		No	OBL	- data in Remarks or on				
3.		INU	OBL	- Problematic Hyd	, , .			
4.				- Indicators of hydric so			y must be	
5.				present, unless distur	· ·	matic		
6.				_ Definitions of Vegetati				
7.				Tree – Woody plants 3 breast height (DBH), re			liameter at	
8.				Sapling/shrub – Wood	_	_	RH and	
9.				greater than or equal			Dirana	
10.				Herb – All herbaceous			ardless of	
				size, and woody plants	-			
12.				Woody vines - All woo			28 ft in	
12.	60	= Total Cov	·or	height.				
Woody Vino Stratum (Blot size: 20 ft)		_ TOTAL COV	ei	Hydrophytic Vegetation	on Present?	∕es _ ∠ _ N	0	
Woody Vine Stratum (Plot size:30 ft)								
2				=				
3.				=				
-				-				
4		- Total Cov		-				
	0	= Total Cov	rei					
Remarks: (Include photo numbers here or on a set A positive indication of hydrophytic vegetation was hydrophytic vegetation was observed (Prevalence Hydrophytic Vegetation).	as observed (>50							

Profile Desc Depth	ription: (Describe to	the o	lepth needed to (indicato	or confirm the a	absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-		_			<u> </u>			
				_				
				_				
		_					-	
		_						
		_		_				
		_		_				
-		_		_				
		_		_				
		_						
1Type: C = C	 oncentration, D = D	enleti	on RM = Reduce	- Ma	trix MS =	: Masked	Sand Grains 21	Location: PL = Pore Lining, M = Matrix.
Hydric Soil		chici	on, Nivi - Neudle	u ivid	u 17, 1913 -	iviaskeu	Juliu Grailis. "I	Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	low !	Surface (S	58) (LRR I	R, MLRA 149B)	·
	oipedon (A2)		Thin Dark Su					2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Mucl	y Mi	neral (F1)	(LRR K, I	-)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	d Layers (A5)	- (11	Depleted Ma					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac ark Surface (A12)	.е (А і	Depleted Da			')		Thin Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
_	ileyed Matrix (S4)				- (- /			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	edox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped	l Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M l	RA 14	19B)					very shallow bank surface (1112) Other (Explain in Remarks)
³ Indicators	of hydrophytic vege	tation	and wetland hyd	rolog	gy must b	e preser	t, unless disturb	
Restrictive I	ayer (if observed):							
	Type:		None			Hydric	Soil Present?	Yes No
	Depth (inches):							
Remarks:								
							-	were assumed to be hydric due to the presence of
inundation,	FACW and OBL veg	etatio	n species, and a o	defini	tive wetla	and bour	ndary.	

Photo of Sample Plot East



	oject City/County: Can	ajoharie, Montgomery County	Sampling Date: 2021-Sept-13		
Applicant/Owner: SunEast		State: New York	Sampling Point: W-EES-19_PEM-1		
Investigator(s): Ethan Snyder, A	Abi Light	Section, Township, Range: N	NA		
Landform (hillslope, terrace, etc.)	: Depression	Local relief (concave, convex, none):	: Concave Slope (%): 1 to 3		
Subregion (LRR or MLRA):L	RR L	Lat: 42.868716 Long:	: -74.5428447		
Soil Map Unit Name: Ilion silt l	oam, 0 to 3 percent slopes		NWI classification: None		
Are climatic/hydrologic condition	s on the site typical for this time of ye	ear? Yes <u></u> ✓ No (If n	io, explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology significantly di	sturbed? Are "Normal Circums	stances" present? Yes <u></u> ✓ No		
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, explain a	ny answers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, transects, ir	mportant features, etc.		
Hydrophytic Vegetation Present	? Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetlan	nd? Yes <u></u> √ No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-EES-19		
	ocedures here or in a separate report				
	· · · · · · · · · · · · · · · · · · ·				
Covertype is PEM. Area is wetlan	nd, all three wetland parameters are រុ	oresent.			
HYDROLOGY					
HIDROLOGI					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	one is required; check all that apply)	Secondai	ry Indicators (minimum of two required)		
		Surfa	ce Soil Cracks (B6)		
Surface Water (A1)	<u>✓</u> Water-Stained Le	✓ Drain	age Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B	13) Moss	s Trim Lines (B16)		
✓ Saturation (A3)	Marl Deposits (B1	Dry-S	eason Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide	✓ (ra\/fi	ish Burrows (C8)		
C !: . D :: (D2)	0 : 1: 1 D1 :	heres on Living Roots (C3)			
Sediment Deposits (B2)	Oxidized Rhizosp	- Satur	ation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Redu	iced Iron (C4)Satur	ration Visible on Aerial Imagery (C9) red or Stressed Plants (D1)		
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Redu Recent Iron Redu	ction in Tilled Soils (C6) Saturt Stunt Geom			
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Redu Recent Iron Redu Thin Muck Surfac	ction in Tilled Soils (C6) e (C7) Satur Stunt Geom	red or Stressed Plants (D1)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in	cted Iron (C4) Saturi ction in Tilled Soils (C6) Stunt e (C7) Shallo	red or Stressed Plants (D1) norphic Position (D2)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in	cted Iron (C4) Saturi ction in Tilled Soils (C6) Stunt e (C7) Shallo Remarks) Micro	ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in	cted Iron (C4) Saturi ction in Tilled Soils (C6) Stunt e (C7) Shallo Remarks) Micro	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in Surface (B8)	cted Iron (C4) Saturi ction in Tilled Soils (C6) Stunt e (C7) Shallo Remarks) Micro	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present?	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes No Depth Yes No Depth	cted Iron (C4) Saturi ction in Tilled Soils (C6) Geom e (C7) Shalld Z Micro Z FAC-N	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes _ ✓ No _ ✓ Depth Yes _ No ✓ Depth	Saturiced Iron (C4) Saturiction in Tilled Soils (C6) Geome (C7) Shallo Micro FAC-N	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
 Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? 	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes No Depth Yes No Depth	cted Iron (C4) Saturi ction in Tilled Soils (C6) Geome (C7) Shalld Micro FAC-N	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes No Depth Yes No Depth	Saturation Sat	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in Surface (B8) Yes No Depth Yes No Depth	Saturation Sat	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in Surface (B8) Yes No Depth Yes No Depth	Saturation Sat	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Presence of Redu Recent Iron Redu Thin Muck Surfac magery (B7) Other (Explain in Surface (B8) Yes No Depth Yes No Depth	Saturation Sat	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) stopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ted or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) stopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) stopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) stopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	ned or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) stopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	— Presence of Redu — Recent Iron Redu — Thin Muck Surface magery (B7) — Other (Explain in Surface (B8) Yes ✓ No — Depth Yes — No ✓ Depth Yes ✓ No — Depth Yes — No — Apple A	Saturation (C4) Saturation in Tilled Soils (C6) Stunt Geome (C7) Shallow Micro FAC-Notice (Inches): 2 Wetland Inches): 0 Wetland Specific (Inches): 0 Specific (Inches): 0 Specific (Inches): 10 Speci	norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) Neutral Test (D5) Hydrology Present? Yes No		

		Status	Number of Dominan Are OBL, FACW, or FA		2	(A)
			Total Number of Dor Across All Strata:		2	(B)
					100	(A/B)
			Prevalence Index wo	rksheet:		
			Total % Cov	er of:	<u>Multiply</u>	<u>By:</u>
			OBL species	110	x 1 =	110
0	= Total Cov	er	FACW species	10	x 2 =	20
			FAC species	0	x 3 =	0
			- FACU species	0	x 4 =	0
			- UPL species	0	x 5 =	0
			- Column Totals	120	(A)	130 (B)
			- Prevalence	Index = B/A =	1.1	
			Hydronhytic Vegetat	ion Indicators		
					/egetation	n
			•		egetation	
0	= Total Cov	er	<u> </u>			
					(Provide	supporting
40	Yes	OBL				supporting
35	Yes	OBL				xplain)
20	No	OBL	-			-
15	No	OBL	,		,	0,
10	No	FACW	Definitions of Vegeta	tion Strata:		
			Tree - Woody plants	3 in. (7.6 cm) o	more in	diameter at
			breast height (DBH),	regardless of h	eight.	
			Sapling/shrub - Woo	dy plants less t	han 3 in. l	DBH and
			greater than or equa	I to 3.28 ft (1 m) tall.	
					•	gardless of
			-	ody vines grea	ter than 3	3.28 ft in
120	= Total Cov	er	height.			
	-		Hydrophytic Vegeta	tion Present? `	/es <u> </u>	No
			-			
			=			
			-			
	= Total Cov	er	-			
	40 35 20 15 10	0 = Total Cov 40 Yes 35 Yes 20 No 15 No 10 No 120 = Total Cov	0 = Total Cover 40 Yes OBL 35 Yes OBL 20 No OBL 15 No OBL 10 No FACW 120 = Total Cover	Are OBL, FACW, or FAPrevalence Index wo Total % Cov OBL species FACW species FACU species FACU species UPL species Column Totals Prevalence Hydrophytic Vegetati 1 - A - Morphologic data in Remarks or o Problematic Hy Indicators of hydric present, unless distu Definitions of Vegeta Tree - Woody plants breast height (DBH), Sapling/shrub - Woo greater than or equa Herb - All herbaceou. 120 = Total Cover 120 = Total Cover 120 = Total Cover Are OBL, FACW, or FAP Prevalence Index wo Total % Cov OBL species FACW species FACU species FACW species F	Total Cover	Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Desc Depth	cription: (Describe t	to the	depth needed to o			ndicator	or confirm the al	bsence of indicators.)	
-		04				Loc2	Touture		Remarks
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc2		Texture	Remarks
0 - 10	10YR 3/1	90	5YR 4/4	10	C	M	Silty Clay Loam		
10 - 18	10YR 4/2	90	5YR 5/6	10	C	M	Gravelly	Silty Clay Loam	
				. —					
		- —		. —					
		- —		. —					
				. —					
				. —					
				. —					
l —		Deplet	ion, RM = Reduce	d Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining,	, M = Matrix.
Hydric Soil								Indicators for Problem	atic Hydric Soils³:
Histosol					-		R, MLRA 149B)	2 cm Muck (A10) (L	RR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hi			Loamy Mucl			(LRR K, I	.)	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleyo					Dark Surface (S7) (L	• •
	d Below Dark Surfa	ace (A1						Polyvalue Below Su	
	ark Surface (A12)		Depleted Da)		Thin Dark Surface (
	Mucky Mineral (S1)		Redox Depr					•	asses (F12) (LRR K, L, R)
Sandy G	Gleyed Matrix (S4)		'		. ,			•	in Soils (F19) (MLRA 149B)
-	Redox (S5)							•	(MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent Materia	
	rface (S7) (LRR R, M	ILRA 1	49B)					Very Shallow Dark S Other (Explain in Re	
								•	erridiks)
-	of hydrophytic veg		and wetland hyd	rolog	y must be	e presen	t, unless disturbe	d or problematic.	
Restrictive I	Layer (if observed):								
	Type:		None	-		Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive in	ndication of hydric	soil wa	is observed. The o	riterio	n for hy	dric soil i	s met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pr	oject	City/County: Cana	ijoharie, Montgomery Coun	ty Sampling Date:	2021-Sept-13			
Applicant/Owner: SunEast			State: New	York Sampling Point: W	-EES-19_UPL-1			
Investigator(s): Ethan Snyder,	, Abi Light		Section, Township, R	ange: NA				
Landform (hillslope, terrace, etc	.): Hillslope		 Local relief (concave, conve	x, none): Undulating	Slope (%): 1 to 3			
Subregion (LRR or MLRA):	LRR L		Lat: 42.8684948	Long: -74.5429342	Datum: WGS84			
Soil Map Unit Name: Ilion silt	loam, 0 to 3 percer	nt slopes		NWI classifica				
Are climatic/hydrologic conditio			ar? Yes / No	(If no, explain in Remark	-			
Are Vegetation, Soil,		significantly dis		Circumstances" present?	Yes _ ✓ No			
Are Vegetation, Soil,		naturally probl		xplain any answers in Remar				
			(.,,	,			
SUMMARY OF FINDINGS -	Attach site man	showing samplir	og noint locations trans	sects important feature	s etc			
Hydrophytic Vegetation Presen	-		g point locations, trans	ects, important reature				
, , , ,		No						
Hydric Soil Present?		No _ _/ _	Is the Sampled Area within	a Wetland?	Yes No⁄_			
Wetland Hydrology Present?	Yes _	No _ _ _	If yes, optional Wetland Site	e ID:				
Remarks: (Explain alternative p	rocedures here or i	n a separate report						
Covertype is UPL. Area is uplan	d not all three wetl	and narameters are	nresent					
Covertype is OPL. Area is uplan	u, not all tillee weti	and parameters are	present.					
İ								
I								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum o	of one is required; ch	neck all that apply)	<u> </u>	Secondary Indicators (minimi	um of two required)			
Courte as Matau (A1)		\\/_+== C+=:=== ==	(DO)	Surface Soil Cracks (B6)				
Surface Water (A1)		_ Water-Stained Lea		Drainage Patterns (B10)				
High Water Table (A2)	_	_ Aquatic Fauna (B1		Moss Trim Lines (B16)				
Saturation (A3)		_ Marl Deposits (B1		Dry-Season Water Table (C2)				
Water Marks (B1)		_ Hydrogen Sulfide		Cravfish Burrows (C8)				
Sediment Deposits (B2)	_		eres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		_ Presence of Reduc		Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		_ Recent Iron Reduc	tion in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)		_ Thin Muck Surface	(C7)	Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial	Imagery (B7)	_ Other (Explain in F	emarks) -					
Sparsely Vegetated Concave		- ` '	· -	Microtopographic Relief (I	D4)			
	- Juliuce (Bo)			FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes No _		inches):					
Water Table Present?	Yes No _		inches):	Wetland Hydrology Present?	Yes No			
Saturation Present?	Yes No _	✓ Depth (inches):					
(includes capillary fringe)								
Describe Recorded Data (stream	m gauge monitorin	g well periol photos	previous inspections) if a	railahle:				
Describe Recorded Data (stream	in gauge, monitoring	g weil, aeriai priotos	, previous irispections,, ir av	allable.				
Remarks:								
			ا					
The criterion for wetland hydro	liogy is not met. No	positive indication (or wedana nyarology was ob	oservea.				

				1					
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:					
	% Cover	Species?	Status	Number of Dominant Species Tl Are OBL, FACW, or FAC:	nat o	(A)			
1				Total Number of Dominant Spec	ies				
3.				Across All Strata:	3	(B)			
4.				Percent of Dominant Species Th	at 0	(A (D)			
-				Are OBL, FACW, or FAC:		(A/B)			
5.				Prevalence Index worksheet:					
6.				Total % Cover of:	Multiply	<u> By:</u>			
7				OBL species 0	x 1 =	0			
e li (el l.e. ((el l.e.)	0	= Total Cov	er	FACW species 0	x 2 =	0			
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0			
1				FACU species 140	x 4 =	560			
2	- ——			UPL species 0	x 5 =	0			
3				Column Totals 140	(A)	560 (B)			
4				Prevalence Index = B/	\ = <u>4</u>				
5				Hydrophytic Vegetation Indicate	rs.				
6				1- Rapid Test for Hydrophy		n			
7				2 - Dominance Test is > 50	_				
	0	= Total Cov	er	3 - Prevalence Index is ≤ 3					
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptati		sunnorting			
1. Lotus tenuis	50	Yes	FACU	data in Remarks or on a separat		. 5apport8			
2. Solidago canadensis	35	Yes	FACU	Problematic Hydrophytic V	-	xplain)			
3. <i>Poa pratensis</i>	30	Yes	FACU	Indicators of hydric soil and wetland hydrology must be					
4. <i>Centaurea jacea</i>	15	No	FACU	present, unless disturbed or problematic					
5. Symphyotrichum ericoides	10	No	FACU	Definitions of Vegetation Strata:					
6.				Tree – Woody plants 3 in. (7.6 cr	n) or more in	diameter at			
7.				breast height (DBH), regardless					
8.				Sapling/shrub – Woody plants le	ss than 3 in.	DBH and			
9.				greater than or equal to 3.28 ft	1 m) tall.				
10.				Herb – All herbaceous (non-woo	dy) plants, re	gardless of			
11.				size, and woody plants less thar					
12.				Woody vines – All woody vines g	reater than 3	3.28 ft in			
	140	= Total Cov	er	height.					
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Presen	? Yes	No <u> </u>			
1.									
2.									
3.									
4.				•					
· ·	0	= Total Cov	er	•					
Remarks: (Include photo numbers here or on a separa									
No positive indication of hydrophytic vegetation was o	bserved (≥	50% of dom	inant specie	es indexed as FAC– or drier).					

		to the d				ndicator	or confirm the	absence of indicators.)	
Depth	Matrix		Redox						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		Texture	Remarks
0 - 8	10YR 4/3	100						Silt Loam	
8 - 13	10YR 4/3	95	10YR 2/1	5	C	М	Gra	avelly Silt Loam	
13 - 18	10YR 4/1	80	5YR 5/8	15	C	M	Grave	lly Silty Clay Loam	
								·	
	-								
	-			_					
				_					
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	l Matr	ix, MS =	Masked	Sand Grains. ²	Location: PL = Pore Lining,	M = Matrix.
Hydric Soil	Indicators:							Indicators for Problema	atic Hydric Soils³:
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR F	R, MLRA 149B)	2 cm Muck (A10) (LF	RR K. L. MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA	\ 149B)	Coast Prairie Redox	
Black H	listic (A3)		Loamy Muck	-		(LRR K, L	.)	5 cm Mucky Peat or	
	gen Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (L l	
	ed Layers (A5)		Depleted Ma					Polyvalue Below Sui	
	ed Below Dark Surf	ace (A11						Thin Dark Surface (S	
I	ark Surface (A12)		Depleted Da					Iron-Manganese Ma	
_	Mucky Mineral (S1)		Redox Depre	ession	s (F8)				n Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (
Sandy	Redox (S5)							Red Parent Material	
Strippe	d Matrix (S6)							Very Shallow Dark S	
Dark Si	urface (S7) (LRR R, I	MLRA 14	l9B)					Other (Explain in Re	
3Indicators	of hydrophytic ves	etation	and wetland hyd	rology	must be	nresen	t. unless disturk	ped or problematic.	
	Layer (if observed)		ana wedana nya	0108)	mase be	presen	c, armess distant	sea or problematic.	
Restrictive	-	,.	None			Hydric	Soil Present?		Yes No ∠
	Type:	-	None			пуштс	Soil Present?		res No/_
	Depth (inches):								
Remarks:									
No positive	e indication of hydr	ric soils v	was observed. The	e crite	rion for l	hydric sc	il is not met.		
]									
]									
]									
]									
]									
<u> </u>									



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Spra	: Sprakers, Montgomery County Sampling Date: 2021-Sept-14					
Applicant/Owner: SunEast			State: Nev	w York	k Sampling Point: W-EES-20_PEM-1			
Investigator(s): Ethan Snyder,	Abi Light		Section, Township, Range: NA					
Landform (hillslope, terrace, etc.)): Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10		
Subregion (LRR or MLRA): L	.RR L	-	Lat: 42.847886	Long:	-74.495328	Datum: WGS84		
Soil Map Unit Name: Darien si	ilt loam, 3 to 8 perc	ent slopes			NWI classification	n: None		
Are climatic/hydrologic condition	is on the site typica	al for this time of ye	ar? Yes <u>✓</u> No	(If no	, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norm	al Circumst	ances" present?	∕es _ ∠ No		
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any	y answers in Remarks.))		
SUMMARY OF FINDINGS – A	Attach site map	showing samplir	ng point locations, trar	nsects, im	portant features, e	etc.		
Hydrophytic Vegetation Present	? Yes	✓_ No						
Hydric Soil Present?	_	✓_ No	Is the Sampled Area withi	n a Wetland	d? Yes	✓ No		
		✓ No	If yes, optional Wetland S			ES-20		
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·			ite iD.	<u>vv-cc</u>	:5-20		
Remarks: (Explain alternative pr								
Covertype is PEM. Area is wetlar	nd, all three wetlan	d parameters are p	resent.					
					-			
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required; ch	neck all that apply)		Secondary	Indicators (minimum	of two required)		
Saufa as Mahau (A4)	·	AMatau Chainead Las	(DO)	_✓ Surface	e Soil Cracks (B6)	•		
Surface Water (A1) ⁄ High Water Table (A2)		′_ Water-Stained Lea _ Aquatic Fauna (B1		_✓ Draina	ge Patterns (B10)			
✓ Fight Water Table (A2) ✓ Saturation (A3)		_ Aquatic Fauria (B1 _ Marl Deposits (B1:		Moss T	Moss Trim Lines (B16)			
Water Marks (B1)	_	_ Hydrogen Sulfide		Dry-Sea	_ Dry-Season Water Table (C2)			
Sediment Deposits (B2)			neres on Living Roots (C3)	-	h Burrows (C8)			
Drift Deposits (B3)	_	_ Presence of Reduc	_		_ Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_		tion in Tilled Soils (C6)		d or Stressed Plants (D	1)		
Iron Deposits (B5)		_ Thin Muck Surface			orphic Position (D2) w Aquitard (D3)			
Inundation Visible on Aerial I	Imagery (B7)	_ Other (Explain in F						
Sparsely Vegetated Concave	0 ,		,	opographic Relief (D4)				
				FAC-Ne	eutral Test (D5)			
Field Observations:	V N-	. Double	Constant and					
Surface Water Present?	Yes No		(inches):	-				
Water Table Present?	Yes No	Depth	(inches): 8	Wetland H	lydrology Present?	Yes No		
Saturation Present?	Yes 🔽 No _	Depth	(inches): 0	_				
(includes capillary fringe)								
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photos	s, previous inspections), if a	available:				
Remarks:					-			
The criterion for wetland hydrol	ogy is mot A positi	ve indication of wet	tand hydrology was obser	vod (primar	ay and secondary indic	ators were present)		
The chieflon for wetland hydror	ogy is met. A positi	ive indication of wei	liand nydrology was obser	veu (primar	y and secondary muic	ators were present).		

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spe				
1.	70 COVE	3pecies:	Status	Are OBL, FACW, or FAC:	cies illat	5	(A)	
2.				Total Number of Dominar	nt Species			
2. 3.				Across All Strata:		5	(B)	
4.				Percent of Dominant Spec Are OBL, FACW, or FAC:	cies That	100	(A/B)	
5				Prevalence Index workshe	eet:			
6.				Total % Cover of:	<u>.</u>	Multiply	<u>Ву:</u>	
7		 .		OBL species	45	x 1 =	45	
	0	= Total Cov	er	FACW species	90	x 2 =	180	
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0	
1. Salix bebbiana	5	Yes	FACW	FACU species	10	x 4 =	40	
2. <i>Salix alba</i>	5	Yes	FACW	UPL species	0	x 5 =	0	
3				Column Totals	145	(A)	265 (B)	
4				Prevalence Inde	ex = B/A =	1.8		
5				Hydrophytic Vegetation In	dicators:			
6				1- Rapid Test for Hyd		egetation		
7				✓ 2 - Dominance Test is		egetation		
	10	= Total Cov	er	✓ 3 - Prevalence Index				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Ad		(Provide	sunnorting	
Symphyotrichum lanceolatum	60	Yes	FACW	data in Remarks or on a se			supporting	
2. <i>Phalaris arundinacea</i>	20	Yes	FACW	Problematic Hydrop			plain)	
3. <i>Lythrum salicaria</i>	20	Yes	OBL	lIndicators of hydric soil and wetland hydrology must be				
4. <i>Typha latifolia</i>	15	No	OBL	present, unless disturbed			33	
5. Solidago canadensis	10	No	FACU	Definitions of Vegetation S	Strata:			
6. <i>Epilobium coloratum</i>	5	No	OBL	Tree – Woody plants 3 in.	(7.6 cm) or	more in o	diameter at	
7. Schoenoplectus tabernaemontani	5	No	OBL	breast height (DBH), regar	rdless of h	eight.		
8				Sapling/shrub - Woody pl	ants less tl	nan 3 in. D	BH and	
9.				greater than or equal to 3	.28 ft (1 m) tall.		
10.				Herb – All herbaceous (no			gardless of	
11.				size, and woody plants les				
12.				Woody vines – All woody v	vines great	er than 3.	28 ft in	
	135	= Total Cov	er	height.				
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation P	Present? \	′es / _ N	lo	
1.								
2								
3								
4								
	0	= Total Cov	er					

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Des	cription: (Describe t	to the o	depth needed to d			ndicator	or confirm the al	osence of indicators.)	
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	1 0 62	Texture		Remarks
0 - 5	10YR 4/2	95		- 70 - 5		Loc ²			Remarks
		- —	5YR 4/4		C	PL _	Silt Loam		
5 - 11	10YR 4/2	92	2.5YR 4/4	8	C	<u>M</u>		Silty Clay Loam	
11 - 18	10YR 5/2	85	5YR 5/8	12	C	<u>M</u>		elly Silty Clay	
11 - 18		- —	2.5YR 4/8	3	C	M	Grave	elly Silty Clay	
				- —					
		- —							
				. —					
¹Type: C = 0	Concentration, D =	Depleti	ion, RM = Reduce	d Mati	rix, MS =	Masked S	and Grains. ² Lo	ocation: PL = Pore Lining,	M = Matrix.
Hydric Soil	Indicators:							Indicators for Problema	atic Hydric Soils³:
Histoso	l (A1)		Polyvalue Be	elow S	urface (S	8) (LRR R	, MLRA 149B)	2 cm Muck (A10) (LI	PDKI MIDA 1/19R)
Histic E	oipedon (A2)		Thin Dark Su	urface	(S9) (LRR	R R, MLRA	149B)	Coast Prairie Redox	
	istic (A3)		Loamy Mucl					5 cm Mucky Peat or	
Hydrog	en Sulfide (A4)		Loamy Gley	ed Ma	trix (F2)			Dark Surface (S7) (L	
Stratifie	d Layers (A5)		⁄ Depleted Ma	atrix (I	- 3)			Polyvalue Below Su	
Deplete	d Below Dark Surfa	ace (A1	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surface (
	ark Surface (A12)		Depleted Da)			asses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depr	essior	ıs (F8)				in Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)							·	(MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Materia	
Strippe	d Matrix (S6)							Very Shallow Dark S	
Dark Su	ırface (S7) (LRR R, M	ILRA 14	49B)					Other (Explain in Re	
3Indicators	of hydrophytic veg	etation	and wetland hyd	Irolog	/ must be	e present	unless disturbe	•	
	Layer (if observed):		Tana Wedana nya	10108.	y mast be	Preserie	, arriess distar se	a or problematic.	
Restrictive	Type:		None			Hydric 9	Soil Present?		Yes No
	• .		None	-		liyunc	our riesent:		les No
	Depth (inches):								
Remarks: A positive i	ndication of hydric	soil wa	s observed. The o	riterio	on for hyd	dric soil is	met.		
	, , , , ,								



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Spra	kers, Montgomery County		Sampling Date: 202	21-Sept-14
Applicant/Owner: SunEast		State: Nev	w York	Sampling Point: W-EE	S-20_UPL-1	
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA	A	
Landform (hillslope, terrace, etc.)): Hillslope		Local relief (concave, conv	ex, none):_	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	.RR L		Lat: 42.848	Long:_	-74.49554	Datum: WGS84
Soil Map Unit Name: Darien si	lt loam, 3 to 8 per	cent slopes			NWI classificatio	n: None
Are climatic/hydrologic condition	s on the site typica	al for this time of yea	ar? Yes <u>✓</u> No	(If no	o, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology ₋	significantly dis	turbed? Are "Norma	al Circumst	tances" present?	Yes _ ✓ No
Are Vegetation, Soil,	or Hydrology ₋	naturally proble	ematic? (If needed,	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site man	showing samplin	ng point locations tran	nsects im	nortant features	etc
Hydrophytic Vegetation Present	-	No <u></u> ✓				
Hydric Soil Present?	Yes .	✓_ No	Is the Sampled Area with	in a Wetlar	nd? Ye	s No⁄_
Wetland Hydrology Present?		No	If yes, optional Wetland S	Site ID:		
Remarks: (Explain alternative pr			ii yes, optional Wedana s			
Wetland Hydrology Indicators: Primary Indicators (minimum of 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 (Sparsely Vegetated Concave		_ Water-Stained Lea _ Aquatic Fauna (B1: _ Marl Deposits (B1: _ Hydrogen Sulfide (_ Oxidized Rhizosph _ Presence of Reduc	3) 5) Cloor (C1) eres on Living Roots (C3) ed Iron (C4) tion in Tilled Soils (C6) (C7)	Surfac Draina Moss 1 Dry-Se Crayfis Satura Stunte Geome Shallon Microt	y Indicators (minimum the Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial I ed or Stressed Plants (I orphic Position (D2) w Aquitard (D3) topographic Relief (D4) eutral Test (D5)	magery (C9) D1)
Field Observations:						
Surface Water Present?	Yes No _	<u>✓</u> Depth (inches):	_		
Water Table Present?	Yes No _	✓ Depth (inches):	Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes No _	✓ Depth (inches):			
(includes capillary fringe)			,	-		
Describe Recorded Data (stream	a gauge monitorin	g well parial photos	provious inspections) if	available:		
Remarks: The criterion for wetland hydrol	ogy is not met. No	positive indication c	of wetland hydrology was o	observed.		

Tron Stratum (Blat size) 20 ft \	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
Tree Stratum (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC:	pecies That	0	(A)
2.				Total Number of Domin	ant Species	2	(B)
3.				Across All Strata:			
1.				Percent of Dominant Sp	ecies That	0	(A/B)
5.				Are OBL, FACW, or FAC: Prevalence Index works	hoot:		
5				- Total % Cover		Multiply	Bv.
				- OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	0	x 3 =	0
·				- FACU species	200	x 4 =	800
				- UPL species	0	x 5 =	0
				Column Totals	200	(A)	800 (B)
l				- Prevalence In		4	,
i				Hydrophytic Vegetation	Indicators:		
5				1- Rapid Test for H		egetation	า
7				2 - Dominance Tes		08010101	•
	0	= Total Cove	er	3 - Prevalence Inde			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		(Provide	supporting
. Poa pratensis	60	Yes	FACU	data in Remarks or on a	separate sh	eet)	
. Trifolium repens	55	Yes	FACU	Problematic Hydro	phytic Vege	tation¹ (E	xplain)
3. Schedonorus arundinaceus	35	<u>No</u>	FACU	- ¹Indicators of hydric soi	l and wetlan	d hydrolo	gy must be
. Phleum pratense	25	<u>No</u>	FACU	present, unless disturbe	ed or probler	matic	
5. Taraxacum officinale	15	<u>No</u>	FACU	Definitions of Vegetatio	n Strata:		
5. <i>Plantago major</i>	10	<u>No</u>	FACU	Tree – Woody plants 3 ii			diameter at
7				breast height (DBH), reg			
3.				Sapling/shrub - Woody			DBH and
).				greater than or equal to Herb – All herbaceous (gardless of
0				size, and woody plants			gai diess oi
11				Woody vines – All wood			3.28 ft in
12				height.	,		
March Marc Chartery (Diet since 20 ft)	200	= Total Cove	er	Hydrophytic Vegetation	Present?	es l	No 🗸
Noody Vine Stratum (Plot size: <u>30 ft</u>) I.				.,,,,,,			
				-			
2. 3.				-			
``- 				-			
4		= Total Cove		-			
	U	TOLAT COVE	21				

	•	to the d	•			ndicator	or confirm the al	osence of indicators.)	
Depth _	Matrix	0/	Redo:			12	-	Favetores	Damanira
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		Texture	Remarks
0 - 5.5	10YR 4/3	100						ilt Loam	
5.5 - 12	10YR 4/2	95	5YR 5/6	5		<u>M</u>		Silty Clay Loam	
12 - 18	10YR 5/2	90	5YR 5/8	10	C	<u>M</u>	Grave	elly Silty Clay	
				_					
				. —					
1Type: C = 0	 Concentration, D =	Denletic	nn RM = Reduced	Matr	iv MS =	Masked 9	Sand Grains 21 (ocation: PL = Pore Lining,	M = Matrix
Hydric Soil		Depietit	on, Rivi – Reduced	iviati	1, 1113 –	waskeu .	Daria Grains. Le	Indicators for Problem	
Histoso			Polyvalue Be	Jour C	urfaca (S	O) /I DD D	MIDA 140D)		•
	pipedon (A2)		Polyvalue Be					2 cm Muck (A10) (L I	
	istic (A3)		Loamy Muck					Coast Prairie Redox	
	en Sulfide (A4)		Loamy Gleye	-		(LKK K, L	,	5 cm Mucky Peat or	
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (L	• •
	d Below Dark Surf	ace (A11						Polyvalue Below Su	
	ark Surface (A12)		Depleted Da)		Thin Dark Surface (
	Mucky Mineral (S1)		Redox Depre					•	asses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)				(,			·	n Soils (F19) (MLRA 149B)
-	Redox (S5)							•	(MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Materia	
	urface (S7) (LRR R, N	MIDA 14	OD)					Very Shallow Dark S	
Dark 30	111ace (37) (LKK K, I	VILIXA 14	,30)					Other (Explain in Re	emarks)
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rology	/ must be	e present	, unless disturbe	d or problematic.	
Restrictive	Layer (if observed)	:							
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
	ndication of hydric	soil was	s observed. The c	riterio	n for hyd	dric soil i	s met.		
/ Positive ii	nareación or nyane	. 5011 1101	observed. The e	1110110	in for thy	ar ic 50ii i.	, med		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Spra	kers, Montgomery County	/	Sampling Date: 202	1-Sept-14
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-EE	S-21_PEM-1
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA		
Landform (hillslope, terrace, etc.)): Hillslope		Local relief (concave, conv	/ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA): L	RR L	_	Lat: 42.8479246	Long:	-74.4937999	Datum: WGS84
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 perc	ent slopes			NWI classification	: None
Are climatic/hydrologic condition	is on the site typica	l for this time of yea	ar? Yes <u></u> ✓ No	(If no,	explain in Remarks.)	
Are Vegetation <u></u> ✓, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumsta	ances" present?	/es No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any	answers in Remarks.	1
SUMMARY OF FINDINGS – A	Attach site map s	showing samplir	ng point locations, trar	nsects, im	portant features, e	etc.
Hydrophytic Vegetation Present	? Yes	✓_ No				
Hydric Soil Present?		<u>✓</u> No	Is the Sampled Area withi	in a Wetland	l? Yes	_∕_ No
Wetland Hydrology Present?		<u> </u>	If yes, optional Wetland Si		W-EE	
				ite ib.		:3-21
Remarks: (Explain alternative pr						
Covertype is PEM. Area is wetlar	nd, all three wetland	d parameters are p	resent. Circumstances are	not normal	due to mowing of veg	getation.
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required: ch	eck all that apply)		Secondary	Indicators (minimum	of two required)
1 maie y maie ators (minima in or	one is required, en	recit an chac apply;		-	Soil Cracks (B6)	or two required;
Surface Water (A1)		_Water-Stained Lea			ge Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B1		,	rim Lines (B16)	
✓ Saturation (A3)	_	Marl Deposits (B1			ason Water Table (C2)	
Water Marks (B1)		Hydrogen Sulfide			n Burrows (C8)	
Sediment Deposits (B2)			neres on Living Roots (C3)	_✓ Saturat	ion Visible on Aerial In	nagery (C9)
Drift Deposits (B3)		Presence of Reduc		Stunted	d or Stressed Plants (D	1)
Algal Mat or Crust (B4)		=	tion in Tilled Soils (C6)	Geomo	rphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface		Shallow	Aquitard (D3)	
Inundation Visible on Aerial Sparsely Vegetated Concave		Other (Explain in R	terriarks)	Microto	pographic Relief (D4)	
Sparsely vegetated Coricave	Surface (Bo)			<u></u> FAC-Ne	utral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	∠ Depth	(inches):	_		
Water Table Present?	Yes 🟒 No	Depth	(inches): 4	Wetland H	ydrology Present?	Yes No
Saturation Present?	Yes _ ∠ _ No	Depth	(inches): 0	=		
(includes capillary fringe)		•		=		
Describe Recorded Data (stream	n gauge monitoring	well aerial nhotos	nrevious inspections) if a	available:		
Describe Recorded Bata (stream	i gaage, monitoring	s well, derial priotos	s, previous inspections,, ire	available.		
Remarks:						
The criterion for wetland hydrol	ogy is met. A positiv	ve indication of wet	land hydrology was obser	ved (primar	y and secondary indic	ators were present).

·				Danis and Tank and data at		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
1.				Total Number of Dominant Species		
2.				Across All Strata:	2	(B)
3				Percent of Dominant Species That		
4				Are OBL, FACW, or FAC:	50	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	By:
7				- OBL species 45	x 1 =	45
	0	= Total Cov	er	FACW species 40	x 2 =	80
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 0	x 4 =	0
2				UPL species 0	x 5 =	0
3				- Column Totals 85	(A)	125 (B)
4				Prevalence Index = B/A =	-	
5				Hydrophytic Vegetation Indicators:		
6				- Land Test for Hydrophytic		1
7				2 - Dominance Test is > 50%	vegetation	l
	0	= Total Cov	er	\checkmark 3 - Prevalence Index is \le 3.01		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide	sunnorting
1. <i>Poaceae</i>	75	Yes	NI	data in Remarks or on a separate s	-	3upporting
2. Cyperus esculentus	40	Yes	FACW	- Problematic Hydrophytic Vege	-	(plain)
3. <i>Typha latifolia</i>	15	No	OBL	Indicators of hydric soil and wetlar		-
4. Scirpus atrovirens	15	No	OBL	present, unless disturbed or proble	,	6)
5. <i>Eleocharis obtusa</i>	10	No	OBL	Definitions of Vegetation Strata:		
6. <i>Nasturtium officinale</i>	5	No	OBL	Tree – Woody plants 3 in. (7.6 cm) c	r more in	diameter at
7.				breast height (DBH), regardless of h	neight.	
8.				Sapling/shrub – Woody plants less	than 3 in. [DBH and
9.				greater than or equal to 3.28 ft (1 n	າ) tall.	
10.				Herb – All herbaceous (non-woody)		gardless of
11.				size, and woody plants less than 3.		
12.				Woody vines – All woody vines grea	iter than 3.	.28 ft in
	160	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation Present?	Yes N	lo
1.						
2.						
3.						
4.						
	0	= Total Cov	er			
Demonstra (Include whete muse have been as a con-		-				
Remarks: (Include photo numbers here or on a se			i 2.00	N	المحما	
A positive indication of hydrophytic vegetation was	s observed (Pre	valence ind	ex is ≤ 3.00	n. vegetation recently mowed, mainta	inea .	

Profile Descr	iption: (Describe t	o the c	lepth needed to o	locun	nent the i	indicato	or confirm the a	absence of indicators.	.)
Depth _	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	exture	Remarks
0 - 10.5	10YR 4/1	85	5YR 5/6	15	C	M	Gravell	y Silty Clay	
10.5 - 18	2.5Y 5/1	80	5YR 5/8	20	C	М	Grav	relly Clay	
		-		_					
		- —		_					
		- —		_					
		- —							
¹Type: C = Co	ncentration, D = [Depleti	on, RM = Reduced	l Mat	rix, MS =	Masked	Sand Grains. 2l	Location: PL = Pore Li	ning, M = Matrix.
Hydric Soil Ir	ndicators:							Indicators for Prob	olematic Hydric Soils³:
Histosol ((A1)		Polyvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)		0) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Thin Dark Su						edox (A16) (LRR K, L, R)
Black His	•		Loamy Muck						ead x (A10) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface (S	
Stratified	Layers (A5)		_✓ Depleted Ma	itrix (F3)				w Surface (S8) (LRR K, L)
Depleted	Below Dark Surfa	ce (A1	1) Redox Dark	Surfa	ce (F6)			Thin Dark Surfa	
Thick Dar	k Surface (A12)		Depleted Da	rk Su	rface (F7))			se Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Redox Depre	essior	ns (F8)			•	dplain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)								•
Sandy Re	edox (S5)								ΓΑ6) (MLRA 144A, 145, 149B)
Stripped	Matrix (S6)							Red Parent Ma	
	face (S7) (LRR R, M	LRA 14	19B)					Very Shallow D	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•					Other (Explain	in Remarks)
3Indicators o	f hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturb	ed or problematic.	
Restrictive La	ayer (if observed):								
	Type:		None			Hydric	Soil Present?	•	Yes No
	Depth (inches):								
Remarks:						-			
A positive inc	dication of hydric s	soil wa	s observed. The c	riterio	on for hv	dric soil	is met.		
, , positive	ancación or riganic i	,	5 0050. Vede c			a 50			

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Project	oject	City/County: Spra	akers, Montgomery County	<u> </u>	Sampling Date: 20	21-Sept-14
Applicant/Owner: SunEast			State: Nev	w York S	Sampling Point: W-E	ES-21_UPL-1
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA	١	
Landform (hillslope, terrace, etc.): Hillslope		Local relief (concave, conv	/ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	.RR L		Lat: 42.8479682	Long:_	-74.4936323	Datum: WGS84
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 perc	ent slopes			NWI classification	on: None
Are climatic/hydrologic condition	ns on the site typica	al for this time of ye	ear? Yes 🟒 No	(If no,	explain in Remarks.)
Are Vegetation, Soil,	or Hydrology _	significantly di	sturbed? Are "Norma	al Circumsta	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally prob	lematic? (If needed,	explain any	answers in Remarks	5.)
SUMMARY OF FINDINGS - A	Attach site map	showing sampli	ng point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	:? Yes	No _ _ _				
Hydric Soil Present?	Yes	No	Is the Sampled Area within	in a Wetland	l? Ye	s No⁄_
Wetland Hydrology Present?	Yes _	No _ _ _	If yes, optional Wetland Si	ite ID:		
						
Remarks: (Explain alternative pr						
Covertype is UPL. Area is upland	d, not all three wetl	and parameters are	e present. Circumstances a	are not norm	nal due to mowing of	vegetation.
HADBOI OCA						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required: ch	neck all that apply)		Secondary	Indicators (minimun	of two required)
Timaly malcacors (minimal of	one is required, cr	reck all triat apply?		-	e Soil Cracks (B6)	ror two required)
Surface Water (A1)		_ Water-Stained Lea	aves (B9)		ge Patterns (B10)	
High Water Table (A2)		_ Aquatic Fauna (B1	13)		rim Lines (B16)	
Saturation (A3)		_ Marl Deposits (B1	5)		ason Water Table (C2)
Water Marks (B1)		_ Hydrogen Sulfide		-	h Burrows (C8)	,
Sediment Deposits (B2)		_ Oxidized Rhizospl	heres on Living Roots (C3)	-	tion Visible on Aerial	Imagan/(C9)
Drift Deposits (B3)		_ Presence of Redu	ced Iron (C4)			
Algal Mat or Crust (B4)		_ Recent Iron Redu	ction in Tilled Soils (C6)		d or Stressed Plants (וט
Iron Deposits (B5)		_ Thin Muck Surface	e (C7)		orphic Position (D2)	
Inundation Visible on Aerial	Imagery (B7)	Other (Explain in	Remarks)		v Aquitard (D3)	
Sparsely Vegetated Concave	-	- `'	,		opographic Relief (D4	.)
				FAC-Ne	eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No _	•	(inches):	-[
Water Table Present?	Yes No _		(inches):	- Wetland H	ydrology Present?	Yes No
Saturation Present?	Yes No _	<u>✓</u> Depth	(inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photo	s, previous inspections), if a	available:		
•	0 0.					
Remarks:						
The criterion for wetland hydrol	logy is not met. No	positive indication	of wetland hydrology was o	observed.		
The chechon for Wedana nyaron	logy is not met. No	positive indication	or wedana nyarology was c	observed.		

Trac Ctratum (Dist size) 20 ft \	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
Tree Stratum (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Number of Dominant S ₁ Are OBL, FACW, or FAC:	oecies That	0	(A)
2.				Total Number of Domin	ant Species	2	(B)
3.				Across All Strata:			
1.				Percent of Dominant Sp	ecies That	0	(A/B)
5.				Are OBL, FACW, or FAC: Prevalence Index works	hoot:		
5				- Total % Cover of		Multiply	Rv.
7				- OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
apling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
•				- FACU species	145	x 4 =	580
				- UPL species	0	x 5 =	0
3.				- Column Totals	145	(A)	580 (B)
l				Prevalence Inc	dex = B/A =	4	
5.				Hydrophytic Vegetation	Indicators:	,	,
5				- Lapid Test for H		egetatio	n
⁷				2 - Dominance Tes		Ü	
	0	= Total Cove	er	3 - Prevalence Inde			
Herb Stratum (Plot size: <u>5 ft</u>)	7.5	\/	FACU	4 - Morphological	Adaptations ¹	(Provide	supporting
. Poa pratensis	75	Yes	FACU	data in Remarks or on a	separate sh	ieet)	
. Phleum pratense	40	Yes	FACU	Problematic Hydro			•
3. Cirsium arvense	15	No No	FACU	Indicators of hydric soil		,	ogy must be
1. Taraxacum officinale		No No	FACU	present, unless disturbe	•	matic	
5. <u>Cichorium intybus</u>	5	<u>No</u>	FACU	_ Definitions of Vegetation			
5. 7.				Tree - Woody plants 3 in			diameter at
7. 3.				breast height (DBH), reg Sapling/shrub – Woody			DRH and
).				greater than or equal to			DDITANA
0.				Herb – All herbaceous (r			gardless of
11.				size, and woody plants l			J
12.				Woody vines - All wood	y vines great	ter than 3	3.28 ft in
	145	= Total Cove	 ⊃r	height.			
Noody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation	Present?	/es	No <u>/</u>
l.							
2.				=			
3.				-			
· ·				=			
· ·		= Total Cove	er	-			
4	0	= Total Cove	er	-			

	•	o the de	•			ndicator	or confirm the ab	osence of indicators.)		
Depth _	Matrix		Redox			12	-	T		Danie alle
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²		Texture		Remarks
0 - 11.5	10YR 4/3	100		_				elly Silt Loam		
11.5 - 10	10YR 4/2	98	5YR 4/4	2	C	<u>M</u>	Gravelly	Silty Clay Loam		
				_						
				_						
				_						
			_							_
				_						
				_					-	
				_					-	
				_						
l 				_						
				_						
				_						
¹Type: C = Co	oncentration, D = D	epletion	n, RM = Reduced	Matr	ix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining,	M = Mat	rix.
Hydric Soil Ir	ndicators:							Indicators for Problema	atic Hydr	ic Soils³:
Histosol	(A1)		Polyvalue Beld	ow S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (LF	RR K. I. M	II RA 149R)
Histic Epi	pedon (A2)		Thin Dark Sur	face	(S9) (LRR	R, MLR	\ 149B)	Coast Prairie Redox		
Black His	tic (A3)		Loamy Mucky	Min	eral (F1)	(LRR K, L	.)	5 cm Mucky Peat or		
Hydrogei	n Sulfide (A4)		Loamy Gleyed	l Ma	trix (F2)			Dark Surface (S7) (L		, (LINER, L, R)
Stratified	Layers (A5)		Depleted Mat	rix (F	3)			Polyvalue Below Su		\(IDD K I)
Depleted	Below Dark Surfa	ce (A11)	Redox Dark Si	urfac	e (F6)			Thin Dark Surface (S		
Thick Dai	rk Surface (A12)	-	Depleted Darl	k Sur	face (F7)			Iron-Manganese Ma		
Sandy M	ucky Mineral (S1)		Redox Depres	sion	ıs (F8)			-		
Sandy Gl	eyed Matrix (S4)							Piedmont Floodplai		
Sandy Re	edox (S5)							Mesic Spodic (TA6) (14A, 145, 149B)
-	Matrix (S6)							Red Parent Material		FF4.0\
	face (S7) (LRR R, M	I RA 149	R)					Very Shallow Dark S		IF12)
			_,					Other (Explain in Re	marks)	
³ Indicators o	f hydrophytic vege	tation a	nd wetland hydro	ology	/ must be	e presen	t, unless disturbe	d or problematic.		
Restrictive La	ayer (if observed):									
	Type:		None			Hydric	Soil Present?		Yes	_ No
	Depth (inches):									
Remarks:	э срен (шенез).	,								
	ndication of hydric	s coile w	as observed The	crito	rion for l	budric co	il is not mot			
ino positive i	nuication of nyunc	. SUIIS We	as observed. The	crite	110111011	ilyuric sc	ii is not met.			



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject City/County: S	Sprakers, Montgomery County	Sampling Da	ate: 2021-Sept-14
Applicant/Owner: SunEast		State: Nev	w York Sampling Poir	nt: W-EES-22_PEM-1
Investigator(s): Ethan Snyder,	Abi Light	Section, Township,	Range: NA	
Landform (hillslope, terrace, etc.)): Swale	Local relief (concave, conv	vex, none): Concave	Slope (%): 1 to 10
Subregion (LRR or MLRA):	RR L	Lat: 42.8452558	Long: -74.4957167	Datum: WGS84
Soil Map Unit Name: Darien si	ilt loam, 3 to 8 percent slopes		NWI clas	sification: None
Are climatic/hydrologic condition	ns on the site typical for this time o		(If no, explain in Re	marks.)
Are Vegetation, Soil,	or Hydrology significantly		al Circumstances" preser	nt? Yes No
Are Vegetation, Soil,	or Hydrology naturally pr	roblematic? (If needed,	explain any answers in R	.emarks.)
			_	
SUMMARY OF FINDINGS – A	Attach site map showing sam	pling point locations, tran	nsects, important fea	tures, etc.
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area withi	n a Wetland?	Yes No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland S	ite ID:	W-EES-22
Remarks: (Explain alternative pr	ocedures here or in a separate rep	port)		
Wetland Hydrology Indicators: Primary Indicators (minimum of 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 (Sparsely Vegetated Concave	Presence of Re Recent Iron Re Thin Muck Sur Other (Explain	Leaves (B9) (B13) (B15) ide Odor (C1) ospheres on Living Roots (C3) educed Iron (C4) eduction in Tilled Soils (C6) face (C7)	Secondary Indicators (m Surface Soil Cracks (I Drainage Patterns (B Moss Trim Lines (B16 Dry-Season Water Ta Crayfish Burrows (CS Saturation Visible on Stunted or Stressed Geomorphic Positior Shallow Aquitard (DS Microtopographic Re FAC-Neutral Test (DS	110) 5) 14ble (C2) 8) 1 Aerial Imagery (C9) Plants (D1) 1 (D2) 8) Elief (D4)
Field Observations:			The Neutral Test (BS	<u>/</u>
Surface Water Present?	Yes No <u></u> ✓ De	pth (inches):		
Water Table Present?		pth (inches): 10	- Wetland Hydrology Pres	sent? Yes No
		· · · · ———	- I Tradition Try of Ology F163	- 105 <u>- /</u> 110 <u></u>
Saturation Present?	Yes _ ✓ No De	pth (inches): 0	-	
(includes capillary fringe)	n gauge, monitoring well, aerial ph			
	ogy is met. A positive indication of			ary indicators were present).

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1.	70 COVE	Species:	Status	Are OBL, FACW, or FAC		2	(A)
2.		 -		Total Number of Domi	nant Species		(D)
2 3.				Across All Strata:		2	(B)
4.				Percent of Dominant S Are OBL, FACW, or FAC	•	100	(A/B)
5				Prevalence Index work			 -
6				Total % Cover	of:	Multiply	By:
7				OBL species	90	x 1 =	90
	0	= Total Cov	er	FACW species	55	x 2 =	110
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	55	x 3 =	165
1				FACU species	0	x 4 =	0
2				UPL species	0	x 5 =	0
3				Column Totals	200	(A)	365 (B)
4.				Prevalence Ir	ndex = B/A =	1.8	
5				Hydrophytic Vegetation	n Indicators:		
6				1- Rapid Test for I		/egetatior	1
7				✓ 2 - Dominance Te		-8	
	0	= Total Cov	er	✓ 3 - Prevalence Inc			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological	Adaptations	¹ (Provide	supporting
1. Scirpus atrovirens	65	Yes	OBL	data in Remarks or on	a separate sh	neet)	0
2. Cyperus esculentus	40	Yes	FACW	Problematic Hydr	ophytic Vege	tation¹ (Ex	(plain)
3. Echinochloa crus-galli	30	<u>No</u>	FAC	¹ Indicators of hydric so	il and wetlan	d hydrolo	gy must be
4. <i>Panicum capillare</i>	25	<u>No</u>	FAC	present, unless disturb	ed or proble	matic	
5. <i>Carex vulpinoidea</i>		No	OBL	Definitions of Vegetation	on Strata:		
6. Persicaria pensylvanica	15	No	FACW	Tree – Woody plants 3			diameter at
7. Juncus effusus	5	No	OBL	breast height (DBH), re	_	_	
8				Sapling/shrub - Woody			DBH and
9				greater than or equal t			
10				Herb – All herbaceous			gardless of
11				size, and woody plants			20 4 :
12				Woody vines – All woo height.	dy vines grea	ter than 3	.28 IL IN
	200	= Total Cov	er				
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation	on Present? \	Yes <u>√</u> N	1o
1							
2.							
3.							
4.							
		= Total Cov	er				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Desc	cription: (Describe t	o the c	lepth needed to d			indicator	or confirm the ab	sence of indicato	ors.)
(inches)	Matrix Color (moist)	%	Color (moist)		Type ¹	Loc2	Textu	ıro	Domarko
0 - 9.5	10YR 3/1	95	5YR 5/4	<u>%</u> 5	С	Loc ²	Silt Lo		Remarks
	10YR 3/2	95	5YR 5/6	<u>5</u>					
9.5 - 18	1018 3/2	95	<u> </u>		C	<u>M</u>	Rocky Sil	ty Clay	
		- —		-					
				- —			_		
				- —					
				- —					
				_					
¹Type: C = C	Concentration, D = I	Depleti	on, RM = Reduced	l Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histosol			Polyvalue Be					2 cm Muck ((A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su						e Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck			(LRR K, L)		Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surfac	e (S7) (LRR K, L)
	d Layers (A5)	.co (A1:	Depleted Ma					Polyvalue Be	elow Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ice (A i	Depleted Da			١		Thin Dark S	urface (S9) (LRR K, L)
	fucky Mineral (S1)		Redox Depre			,		Iron-Manga	nese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)		Redox Depre	.33101	13 (10)			Piedmont Fl	oodplain Soils (F19) (MLRA 149B)
-	ledox (S5)							Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent	
	rface (S7) (LRR R, M	II DA 17	IOD)						v Dark Surface (TF12)
Dark 3u	Hace (37) (LKK K, IV	ILIXA 12	190)					Other (Expla	ain in Remarks)
3Indicators	of hydrophytic veg	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturbe	d or problematic.	
Restrictive I	_ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):			_					
Remarks:									
	ndication of hydric	soil wa	s observed. The c	riterio	on for hy	dric soil i	s met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pr	oject	City/County: Spra	kers, Montgomery County	<u>'</u>	Sampling Date: 202	21-Sept-14
Applicant/Owner: SunEast			State: Nev	w York Sampling Point: W-EES-22_UPL-1		
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: N	A	
Landform (hillslope, terrace, etc.	.): Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	LRR L		Lat: 42.8452597	Long:	-74.4957114	Datum: WGS84
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 perc	ent slopes			NWI classificatio	n: None
Are climatic/hydrologic condition	ns on the site typica	al for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	
Are Vegetation <u></u> ✓, Soil,	or Hydrology _	significantly dis	turbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally proble	ematic? (If needed,	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site map	showing samplin	g point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	-	No	1		·	
, , ,			la de Carrela d'Arra cride	14/-41		- N- /
Hydric Soil Present?		_ ✓ _ No	Is the Sampled Area with	iin a Wetiar	nd? Yes	sNo_ <u>_/</u>
Wetland Hydrology Present?	Yes _	No	If yes, optional Wetland S	Site ID:		
Covertype is UPL. Area is upland	d, not all three wetl	and parameters are	present. Circumstances a	re not nori	mal due to mowing of	vegetation.
HYDROLOGY Wetland Hydrology Indicators:						
Primary Indicators (minimum o	f one is required: cl	neck all that apply)		Secondar	y Indicators (minimum	of two required)
1 Timal y maleacors (minimani o	r one is required, er	reck all triat apply)			ce Soil Cracks (B6)	rortwo required
Surface Water (A1)	_	_ Water-Stained Lea			age Patterns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B1		Moss Trim Lines (B16)		
Saturation (A3)		_ Marl Deposits (B15		Dry-Se	eason Water Table (C2))
Water Marks (B1)		_ Hydrogen Sulfide (Crayfis	sh Burrows (C8)	
Sediment Deposits (B2) Drift Deposits (B3)	_	_ Oxidized Rilizospii _ Presence of Reduc	eres on Living Roots (C3)	Satura	ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	_	_	tion in Tilled Soils (C6)	Stunte	ed or Stressed Plants (I	D1)
Iron Deposits (B5)	_	_ Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial	Imagery (B7)	_ Other (Explain in R			w Aquitard (D3)	
Sparsely Vegetated Concave	•	_ other (Explain in it	erriarits)	Microtopographic Relief (D4)		
				FAC-N	eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No _	•	inches):	-		
Water Table Present?	Yes No _	<u>✓</u> Depth (inches):	Wetland I	Hydrology Present?	Yes No
Saturation Present?	Yes No _	✓ Depth (inches):			
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitorin	g well. aerial photos	. previous inspections), if a	available:		
		6 · · · · · · · · · · · · · · · · · · ·	,,,			
Remarks:						
The criterion for wetland hydro	logy is not met. No	positive indication of	of wetland hydrology was o	observed.		

				1		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
1				Total Number of Dominant Species		
3.				Across All Strata:	2	(B)
4.		 -		Percent of Dominant Species That	0	(A (D)
				Are OBL, FACW, or FAC:		(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	Multiply	<u>By:</u>
7	0	= Total Cove		OBL species 0	x 1 =	0
Conding (Church Church up (Diet einer 45 ft)		_ TOTAL COVE	21	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1.				FACU species 155	x 4 =	620
2				UPL species 0	x 5 =	0
3.				Column Totals 155	(A)	620 (B)
4				Prevalence Index = B/A =	4	_
5		 -		Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic		1
7				2 - Dominance Test is > 50%	Ü	
	0	= Total Cove	er	3 - Prevalence Index is $\leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptation	s¹ (Provide	supporting
1. Schedonorus pratensis	70	Yes	FACU	data in Remarks or on a separate s		11 0
2. <i>Poa pratensis</i>	40	Yes	FACU	Problematic Hydrophytic Veg	etation¹ (E>	(plain)
3. <u>Trifolium repens</u>	25	No	FACU	¹ Indicators of hydric soil and wetla	nd hydrolo	gy must be
4. Taraxacum officinale	15	No	FACU	present, unless disturbed or proble	ematic	
5. <i>Plantago major</i>	5	No	FACU	Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter at
7				breast height (DBH), regardless of	height.	
8				Sapling/shrub – Woody plants less		OBH and
9				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody		gardless of
11				size, and woody plants less than 3.		
12				Woody vines – All woody vines gre	ater than 3.	.28 ft in
	155	= Total Cove	er	height.		
Woody Vine Stratum (Plot size: 30 ft)				Hydrophytic Vegetation Present?	Yes N	No <u>~</u>
1						
2						
3						
4						
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)			_		
No positive indication of hydrophytic vegetation was ob		50% of dom	inant specie	es indexed as FAC– or drier).		
The positive marcation of thy at optified regulation mas of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2070 01 00	a.ic specie	es maexea as trice of affect,		

	•	to the de	•			ndicator	or confirm the al	osence of indicators.)	
Depth	Matrix		Redox			12	-	Faretria	Damania
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²		Texture	Remarks
0 - 6	10YR 4/3	100		- —				Clay Loam	
6 - 13	10YR 4/1	95	5YR 4/4	5_	C	M		elly Silty Clay	
13 - 18	10YR 4/2	95	2.5YR 5/4	5	C	M	Gravelly	Silty Clay Loam	
				_					
				_					
	-								
	-								-
				- —					
1T C	Communication D	Danlatia	- DM Deduced				Sand Coaling 21	tiDi Dli-i	NA NATIONAL
		Depletio	n, RM = Reduced	Matr	ix, MS =	Masked	sand Grains. ² Lo	ocation: PL = Pore Lining,	
Hydric Soil								Indicators for Problema	atic Hydric Soils³:
Histoso			Polyvalue Be					2 cm Muck (A10) (Li	RR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su					Coast Prairie Redox	(A16) (LRR K, L, R)
	istic (A3)		Loamy Muck			(LRR K, L		5 cm Mucky Peat or	r Peat (S3) (LRR K, L, R)
, 0	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (L	.RR K, L)
l ——	ed Layers (A5)	260 (411)	Depleted Ma					Polyvalue Below Su	rface (S8) (LRR K, L)
	ed Below Dark Surfa ark Surface (A12)	ace (ATT)	Depleted Dark					Thin Dark Surface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre					Iron-Manganese Ma	asses (F12) (LRR K, L, R)
			Redox Depre	:55101	IS (FO)			Piedmont Floodplai	in Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) ((MLRA 144A, 145, 149B)
_	Redox (S5)							Red Parent Materia	l (F21)
	d Matrix (S6)							Very Shallow Dark S	Surface (TF12)
Dark Su	urface (S7) (LRR R, N	MLRA 149	9B)					Other (Explain in Re	emarks)
³ Indicators	of hydrophytic veg	getation a	and wetland hydr	ology	/ must be	e present	, unless disturbe	d or problematic.	
Restrictive	Layer (if observed):	:							
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):			_					
Remarks:						1			
	ndication of hydric	soil was	observed. The cr	iterio	n for hyd	dric soil is	s met.		
	, , , , , , , , , , , , , , , , , , , ,				. ,				



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Local relief Lat: cent slopes al for this time of year? significantly disturbed? naturally problematic? showing sampling point local No No Is the Sampling Lat: Lat: Lat: Lat: Lat: Lat: Lat: Lat:	Yes No (If Are "Normal Circur (If needed, explain cations, transects, bled Area within a Wetland Site ID:	e): Undulating ng: -74.4906482	Slope (%): 1 to 10 Datum: WGS84 None Pes No/ CC No	
Local relief Lat: cent slopes al for this time of year? significantly disturbed? naturally problematic? showing sampling point local No late Sampling No late	(concave, convex, none 42.8445017 Lon Yes _ \(\subseteq \) No (If Are "Normal Circur (If needed, explain cations, transects, pled Area within a Wetland Site ID:	e): Undulating ng: -74.4906482	None No No No No No No No No No No S-23	
Lat: cent slopes al for this time of year? ✓ significantly disturbed? — naturally problematic? showing sampling point lo ✓ No ✓ No Is the Sampling as separate report)	Yes ✓ No (If Are "Normal Circur (If needed, explain cations, transects, led Area within a Wetland Site ID:	ng: -74.4906482 [Image: -74.4906482 Image: -74.4906482 Image: NWI classification: fino, explain in Remarks.) Imstances" present? Yeany answers in Remarks.) Important features, et aland? Yes	None No No No No No No No No No No S-23	
cent slopes al for this time of year? ✓ significantly disturbed? — naturally problematic? showing sampling point lo ✓ No ✓ No Is the Sampling na separate report)	Yes No (If Are "Normal Circur (If needed, explain cations, transects, pled Area within a Wetland Site ID:	NWI classification: no, explain in Remarks.) mstances" present? Ye any answers in Remarks.) important features, et land? Yes W-EES	None No No No No S-23	
al for this time of year? significantly disturbed? naturally problematic? showing sampling point lo No No Is the Sampling point a separate report)	Are "Normal Circur (If needed, explain cations, transects, oled Area within a Wetl anal Wetland Site ID:	ino, explain in Remarks.) mstances" present? Ye any answers in Remarks.) important features, et land? Yes W-EES	es No/_ cc. / No	
significantly disturbed? naturally problematic? showing sampling point low to the sampling poin	Are "Normal Circur (If needed, explain cations, transects, oled Area within a Wetl anal Wetland Site ID:	important features, et W-EES	.c. ✓ No 5-23	
showing sampling point lo No Is the Sampling No If yes, option a separate report)	(If needed, explain cations, transects, pled Area within a Wetland Site ID:	important features, et	.c. ✓ No 5-23	
showing sampling point lo No Is the Sampling point lo No If yes, option a separate report)	cations, transects, oled Area within a Wetl onal Wetland Site ID:	important features, et	✓_ No 5-23	
✓ No Is the Samp ✓ No If yes, option a separate report)	oled Area within a Wetl onal Wetland Site ID:	land? Yes W-EES	✓_ No 5-23	
✓ No Is the Samp ✓ No If yes, option a separate report)	oled Area within a Wetl onal Wetland Site ID:	land? Yes W-EES	✓_ No 5-23	
✓ No Is the Sam ✓ No If yes, option in a separate report)	nal Wetland Site ID:	W-EES	5-23	
✓ No Is the Sam ✓ No If yes, option in a separate report)	nal Wetland Site ID:	W-EES	5-23	
✓ No If yes, option a separate report)	nal Wetland Site ID:	W-EES	5-23	
n a separate report)				
•	imstances are not nor	mal due to agricultural acti	vities. area	
nd parameters are present. Circi	imstances are not nor	mal due to agricultural acti	vities. area	
heck all that apply)	Second	lary Indicators (minimum o	f two required)	
		•	•	
	_ ∠ Dra	inage Patterns (B10)		
•	Mos	Moss Trim Lines (B16)		
•	•			
	ng Roots ((3)			
·	_√ Sati		-	
	l Soils (C6) — Stui)	
_ _ Thin Muck Surface (C7)	Geo			
_ Other (Explain in Remarks)				
		-Neutral Test (D3)		
Denth (inches):	1			
•		d Lludrologu Drocont?	Vos. 4 No.	
		a Hydrology Present?	Yes No	
Depth (inches):				
	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Dry-Season Water Table (C2) Crayfish Burrows (C8) ✓ Saturation Visible on Aerial Image Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5) Wetland Hydrology Present?	

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1.	70 COVCI	эрсскэ.	Status	Are OBL, FACW, or FAC		4	(A)
2.				Total Number of Domi	nant Species	4	(D)
3.				Across All Strata:		4	(B)
4.		·		Percent of Dominant S Are OBL, FACW, or FAC	•	100	(A/B)
5				Prevalence Index work			
6				Total % Cover	of:	Multiply	By:
7				OBL species	80	x 1 =	80
	0	= Total Cov	er	FACW species	95	x 2 =	190
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	40	x 3 =	120
1. Viburnum lentago	5	Yes	FAC	FACU species	0	x 4 =	0
2. Cornus amomum	5	Yes	FACW	UPL species	0	x 5 =	0
3				Column Totals	215	(A)	390 (B)
4				Prevalence Ir		1.8	330 (5)
5							 -
5				Hydrophytic Vegetation		/+-+:	
7				1- Rapid Test for I		regetation	l
	10	= Total Cov	er	✓ 2 - Dominance Te ✓ 3 - Prevalence Inc			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological		l (Drovido	cupporting
1. <i>Lysimachia nummularia</i>	85	Yes	FACW	data in Remarks or on	•	-	supporting
2. <i>Lythrum salicaria</i>	55	Yes	OBL	Problematic Hydr	•	-	(plain)
3. <i>Panicum capillare</i>	35	No	FAC	¹Indicators of hydric so			•
4. <i>Typha latifolia</i>	15	No	OBL	present, unless disturb		-	8)
5. Carex vulpinoidea	10	No	OBL	Definitions of Vegetation	· · · · · · · · · · · · · · · · · · ·		
6. Bidens frondosa	5	No	FACW	Tree – Woody plants 3		more in	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	, plants less t	han 3 in. I	OBH and
9.				greater than or equal t	o 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	(non-woody)	plants, re	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines – All wood	dy vines great	ter than 3	.28 ft in
1-1	205	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft)			·.	Hydrophytic Vegetatio	n Present? \	∕es <u> </u>	No
- 1							
1. 2.							
2. 3.				•			
4.		 ·					
T		= Total Cov	or				
		- 10tal C0V	CI				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	indicator	or confirm the	absence of indicators.)	
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	•	Texture	Remarks
0 - 5	10YR 4/2	95	5YR 5/6	5	C	М	S	Silt Loam	
5 - 12	10YR 4/1	90	5YR 5/8	10	C	M/PL	Rocky Silty Clay Loam		
12 - 18	2.5Y 4/1	85	5YR 5/8	15		M	Gravelly Clay		
				-					
							-		
		- —							
		- —							
	-			. —			-		
		- —		. —					
				. —					
				. —					
	1								
¹Type: C = 0	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	= Masked	Sand Grains. 2	Location: PL = Pore Linin	g, M = Matrix.
Hydric Soil	Indicators:							Indicators for Probler	matic Hydric Soils³:
Histoso	l (A1)		Polyvalue B	Below	Surface ((S8) (LRR	R, MLRA 149B)	2 cm Muck (A10) ((LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark S	urfac	e (S9) (LR	R R, MLR	A 149B)	Coast Prairie Red	
Black H	istic (A3)		Loamy Mud	ky Mi	neral (F1) (LRR K, I	L)		or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gley	ed M	atrix (F2)				
— Hydrogeri Suffice (A4) — Loanly Gleyet 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) Third Park Surface (A12) Park Surface (S9) (LRR K, L)									
Thick Dark Surface (A12) Depleted Dark Surface (F7)								Masses (F12) (LRR K, L, R)	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19)									
Sandy Gleyed Matrix (S4)									5) (MLRA 144A, 145, 149B)
I Sandy Redox (S5)						Red Parent Mater			
Stripped Matrix (S6)								Very Shallow Dark	
Dark Su	urface (S7) (LRR R, I	MLRA 1	49B)					Other (Explain in	
3Indicators	3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
-	Layer (if observed)		ir and wedand ny	uioloį	gy must i	l presen	ic, uriless disturb	ed of problematic.	
Restrictive	•	l .	None			Lludric 9	Soil Present?		Vos. / No.
	Type:		None	-		nyuric 3	on Fresent:		Yes/_ No
	Depth (inches):								
Remarks: A positive indication of hydric soil was observed. The criterion for hydric soil is met									
A positive indication of hydric soil was observed. The criterion for hydric soil is met.									

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: , Mo	ntgomery		Sampling Date: 202	21-Sept-15
Applicant/Owner: SunEast			State: NY		Sampling Point: W-EE	S-23_PFO-1
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA	4	
Landform (hillslope, terrace, etc.)	: Depression		Local relief (concave, conv	/ex, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLRA): L	RR L		Lat: 42.8415342	Long:	-74.4946711	Datum: WGS84
Soil Map Unit Name: Madalin	silty clay loam				NWI classificatio	n: None
Are climatic/hydrologic condition	s on the site typica	al for this time of ye	ar? Yes <u>✓</u> No	(If no	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norm	al Circumst	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site map	showing samplir	ng point locations, trar	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	? Yes	✓_ No				
Hydric Soil Present?		✓ No	Is the Sampled Area withi	in a Watlani	d? Vac	No
			i '			
Wetland Hydrology Present?	······································	<u> </u>	If yes, optional Wetland S	ite ID:	<u>W-E</u>	ES-23
Remarks: (Explain alternative pr						
Covertype is PFO. Area is wetlan	d, all three wetland	d parameters are pr	esent.			
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required: cl	neck all that annly)		Secondary	Indicators (minimum	of two required)
Trimary maleators (minimarir or	one is required, ci	reck an triat appry		-	e Soil Cracks (B6)	or two required)
Surface Water (A1)		<u>/</u> Water-Stained Lea			ge Patterns (B10)	
High Water Table (A2)		_ Aquatic Fauna (B1			rim Lines (B16)	
✓ Saturation (A3)	_	_ Marl Deposits (B1			ason Water Table (C2)	
<u>✓</u> Water Marks (B1)		_ Hydrogen Sulfide		-	h Burrows (C8)	
Sediment Deposits (B2)			neres on Living Roots (C3)	-	tion Visible on Aerial I	magery (C9)
Drift Deposits (B3)	_	_ Presence of Redu			d or Stressed Plants ([-
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		orphic Position (D2)	,
Iron Deposits (B5)	(57)	_ Thin Muck Surface			v Aquitard (D3)	
Inundation Visible on Aerial I		_ Other (Explain in F	Remarks)	_✓ Microto	opographic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	<u>∠</u> Depth	(inches):			
Water Table Present?	Yes No	✓ Depth	(inches):	Wetland H	lydrology Present?	Yes No
Saturation Present?	Yes <u></u> ✓ No _	Depth	(inches): 0	-		
(includes capillary fringe)			·	-		
Describe Recorded Data (stream	n gauge monitorin	g well periol photos	nravious inspactions) if:	availahla.		
Describe Recorded Data (stream	r gauge, monitorin	g weil, aeriai prioto.	s, previous irispections, ire	available.		
Remarks:						
The criterion for wetland hydrol	ogy is met. A posit	ive indication of we	tland hydrology was obser	ved (primar	ry and secondary indi	cators were present).

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	t 5	(4)
l. Tsuga canadensis	35	Yes	FACU	Are OBL, FACW, or FAC:		(A)
. Betula nigra	15	Yes	FACW	Total Number of Dominant Specie	s 7	(B)
. Ulmus americana	10	No	FACW	Across All Strata:		
. Carya ovata	10	No	FACU	Percent of Dominant Species That	71.4	(A/B)
5. Acer saccharum	5	No	FACU	Are OBL, FACW, or FAC:		
. Tilia americana	5	No	FACU	Prevalence Index worksheet: Total % Cover of:	Multiply	D. a
				OBL species 0	Multiply x 1 =	<u>ъу.</u> О
	80	= Total Cov	er	FACW species 27	- x 1 = - x 2 =	 54
apling/Shrub Stratum (Plot size: <u>15 ft</u>)		_		FAC species 48	- x2 x3=	144
. Carpinus caroliniana	30	Yes	FAC	FACU species 65	- x3 x4=	260
				UPL species 0		0
				Column Totals 140	x 5 = _	
					_ (A) _	458 (B
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators		
				1- Rapid Test for Hydrophytic	Vegetation	l
-	30	= Total Cov	er	✓ 2 - Dominance Test is >50%		
lerb Stratum (Plot size: <u>5 ft</u>)		=		3 - Prevalence Index is ≤ 3.0¹		_
. Rubus idaeus	10	Yes	FACU	4 - Morphological Adaptation	-	supportin
. Toxicodendron radicans	8	Yes	FAC	data in Remarks or on a separate		(nlain)
. Dryopteris carthusiana	2	No	FACW	Problematic Hydrophytic Veg		
				present, unless disturbed or probl	,	gy must b
				Definitions of Vegetation Strata:	ematic	
				Tree – Woody plants 3 in. (7.6 cm)	or more in a	diameter :
				breast height (DBH), regardless of		diameter e
				Sapling/shrub – Woody plants less	_	DBH and
·				greater than or equal to 3.28 ft (1)		
0.				Herb – All herbaceous (non-wood)		gardless o
				size, and woody plants less than 3		-
1				Woody vines – All woody vines gre	ater than 3	.28 ft in
<u> </u>	20	= Total Cov	or	height.		
Voody Vino Stratum (Blot size: 20 ft)		_ 10tai C0V	CI	Hydrophytic Vegetation Present?	Yes _✓ N	lo
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) . <i>Toxicodendron radicans</i>	5	Yes	FAC			
2. Vitis riparia	- 	Yes	FAC	•		
•		162	FAC			
l						
	10	_= Total Cov	er			

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Morphological Adaptations). raised buttresses, exposed roots on trees.

Profile Des	scription: (Describe	to the c	lepth needed to d	locum	nent the i	ndicator	or confirm the	absence of indicators.)
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	%_	Color (moist)	%	Type ¹	Loc ²	Te	exture	Remarks
0 - 5	10YR 3/2	100					L	oam	
5 - 12	10YR 3/1	90	5YR 5/6	10	C	М	Silt	ty Clay	
12 - 18	10YR 3/1	85	5YR 5/6	15	С	М	Gravell	ly Silty Clay	
-									
	-							-	
	-							 .	
				_					
	-								
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked :	Sand Grains. 2	Location: PL = Pore Lir	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Prob	lematic Hydric Soils³:
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR R	R, MLRA 149B)	2 cm Muck (A10	0) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLRA	(149B)		edox (A16) (LRR K, L, R)
Black H	listic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L)		at or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		Loamy Gleye					Dark Surface (S	
	ed Layers (A5)		Depleted Ma						w Surface (S8) (LRR K, L)
	ed Below Dark Surf	ace (A1						Thin Dark Surfa	
	Park Surface (A12)		Depleted Da						se Masses (F12) (LRR K, L, R)
_	Mucky Mineral (S1)		Redox Depre	essior	ıs (F8)			_	dplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)								TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Ma	
Strippe	ed Matrix (S6)							Very Shallow D	
Dark Si	urface (S7) (LRR R, I	MLRA 14	19B)					Other (Explain	
3Indicators	of hydronhytic veg	etation	and wetland hvd	rolog	v must he	nresent	t unless disturh	ed or problematic.	·
	Layer (if observed)		ana wedana nya	10108.	y mast b	Present	c, arriess aistars	rea or problematic.	
ixesa icave	Type:	•	None			Hydric	Soil Present?	,	Yes/_ No
			None			i iyuric .	Jon Fresent:		ies/_ NO
	Depth (inches):							 ,	
Remarks:									
A positive	indication of hydric	soil wa	s observed. The c	riterio	on for hy	dric soil i	s met.		
]									
]									
]									



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	ject	City/	/County: Spra	akers, Montgomery		1-Sept-16	
Applicant/Owner: SunEast				State: NY	/ 9	Sampling Point: W-EES	S-23_UPL-1
Investigator(s): Ethan Snyder, I	3rian Corrigan,	Cory Dur	nning	Section, Township	o, Range: NA	·	_
Landform (hillslope, terrace, etc.)	: Hillslope	j	Local relief (concave, con	vex, none):	Undulating	Slope (%): 1 to 3	
Subregion (LRR or MLRA): L	RR L			Lat: 42.841646	Long:	-74.4945596	Datum: WGS84
Soil Map Unit Name: Madalin	silty clay loam					NWI classification	n: None
Are climatic/hydrologic condition	s on the site ty	pical for t	his time of ye	ar? Yes No	o (If no,	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrolo	gy s	ignificantly dis	sturbed? Are "Norn	nal Circumsta	ances" present?	Yes 🟒 No
Are Vegetation, Soil,	or Hydrolo	gy n	aturally probl	lematic? (If needed	l, explain any	y answers in Remarks.))
SUMMARY OF FINDINGS – A	ttach site m	ap show	ving samplii	ng point locations, tra	nsects, im	portant features, e	etc.
Hydrophytic Vegetation Present	,	Yes I	No ./				
Hydric Soil Present?		Yes !		Is the Sampled Area with	nin a Watland	do Voc	No⁄_
				i ·		1: 103	
Wetland Hydrology Present?	·	Yes N		If yes, optional Wetland	Site ID:	<u> </u>	
Remarks: (Explain alternative pro	ocedures here	or in a se	parate report)			
Covertype is UPL. Area is upland	, not all three \	wetland p	arameters are	e present.			
		•					
111/2201 061/							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is require	d: check a	ıll that apply)		Secondary	Indicators (minimum	of two required)
1 miles marcates 5 (milmans es	<u>one is required</u>	a, criccit a	m cnac appry,		-	e Soil Cracks (B6)	or two required,
Surface Water (A1)			er-Stained Lea			ge Patterns (B10)	
High Water Table (A2)			atic Fauna (B1			rim Lines (B16)	
Saturation (A3)			Deposits (B1			ason Water Table (C2)	
Water Marks (B1)			rogen Sulfide		Cravfis	h Burrows (C8)	
Sediment Deposits (B2)				neres on Living Roots (C3)	_	tion Visible on Aerial In	magery (C9)
Drift Deposits (B3)			sence of Redu			d or Stressed Plants (D	0 ,
Algal Mat or Crust (B4)				ction in Tilled Soils (C6)		orphic Position (D2)	•
Iron Deposits (B5)	()		Muck Surface			v Aguitard (D3)	
Inundation Visible on Aerial I	0 ,	Othe	er (Explain in F	Remarks)		opographic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)					eutral Test (D5)	
Field Observations:							
Surface Water Present?	Yes N	No 🟒	Depth	(inches):			
Water Table Present?	Yes N	No 🗸	Depth	(inches):	— Wetland H	lydrology Present?	Yes No ∠
Saturation Present?			•	(inches):	-	yarology i reseme.	
	Yes N	NO <u>7</u>	Берин	(Inches).	_		
(includes capillary fringe)							
Describe Recorded Data (stream	gauge, monite	oring well	, aerial photos	s, previous inspections), if	f available:		
Remarks:							
				6 4 11 1			
The criterion for wetland hydrol	ogy is not met.	No positi	ve indication	of wetland hydrology was	observed.		

				1		1
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	1	(4)
1. Tsuga canadensis	60	Yes	FACU	Are OBL, FACW, or FAC:		(A)
2. Acer saccharum	15	No	FACU	Total Number of Dominant Species	5	(B)
3. Tilia americana	10	No	FACU	Across All Strata:		(B)
4. Fagus grandifolia	5	No	FACU	Percent of Dominant Species That	20	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
··	90	= Total Cov	or	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		- Iotal Cov	CI	FACW species 0	x 2 =	0
_ .	15	Voc	FAC	FAC species 15	x 3 =	45
1. Carpinus caroliniana	15	Yes	FAC	FACU species 115	x 4 =	460
2. Acer saccharum	10	Yes	FACU	UPL species 0	x 5 =	0
3.				Column Totals 130	(A)	505 (B)
4				Prevalence Index = B/A =	3.9	
5				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic \	/egetation	
7				2 - Dominance Test is > 50%	egetation	
	25	= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	1 (Provide	sunnorting
1. Solidago flexicaulis	10	Yes	FACU	data in Remarks or on a separate sh	-	Supporting
2. Carex gracillima	5	Yes	FACU	Problematic Hydrophytic Vege		(plain)
3				¹Indicators of hydric soil and wetlan	-	
4.		·		present, unless disturbed or proble		8)
5.				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at
7.				breast height (DBH), regardless of h		alameter at
8.				Sapling/shrub – Woody plants less t	-	OBH and
9.				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		
11				Woody vines – All woody vines grea		.28 ft in
12				height.		
	15	= Total Cov	er	Hydrophytic Vegetation Present?	Yes N	lo ./
Woody Vine Stratum (Plot size:30 ft)				Trydrophysic regelation resent.		
1						
2						
3						
4						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	e sheet.)			_		
No positive indication of hydrophytic vegetation was ob		50% of dom	ninant specie	es indexed as FAC– or drier).		
				,		

	•	to the de	•			ndicator	or confirm the abs	sence of indicators.)		
Depth _	Matrix		Redox			12	т.			Damanira
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	-	xture		Remarks
0 - 6.5	10YR 5/3	100		_			-	Loam	-	
6.5 - 12	10YR 5/4	100		-				lay Loam		
12 - 18	10YR 5/2	95	5YR 4/4	5	C	M	Rocky Silt	y Clay Loam		
				_						
				_						
				_						
		· ·		_					-	
1Type: C = C	oncentration D =	Denletio	n RM = Reduced	Mati	riv MS =	Masked	Sand Grains 21 or	cation: PL = Pore Linin	σ M = M:	atriy
Hydric Soil I		Depietio	n, KW – Kedacea	iviati	1, 1015 –	Masked	Sana Grains. Loc	Indicators for Probler	_	
Histosol			Polyvalue Be	ا میدر <i>د</i>	urfaca (S	9) (I DD I	D MIDA 140D)		,	
	ipedon (A2)		Polyvalue Be Thin Dark Su		•		-	2 cm Muck (A10) (
Black Hi			Loamy Muck					Coast Prairie Red		
	en Sulfide (A4)		Loamy Gleye			(LKK K, I	-)	5 cm Mucky Peat		
	d Layers (A5)		Depleted Ma					Dark Surface (S7)		
	d Below Dark Surfa							Polyvalue Below S		
	irk Surface (A12)	(, ,	Depleted Dar					Thin Dark Surface		
	lucky Mineral (S1)		Redox Depre					Iron-Manganese I		
-	leyed Matrix (S4)				()			Piedmont Floodpl		
-	edox (S5)							Mesic Spodic (TA6		144A, 145, 149B)
_	Matrix (S6)							Red Parent Mater		
	rface (S7) (LRR R, N	AI DA 140	ND)					Very Shallow Dark		
Daik Su	11ace (37) (LKK K, N	ILIXA 143	,b)					Other (Explain in	Remarks))
-			and wetland hydr	ology	y must be	presen	t, unless disturbed	or problematic.		
Restrictive L	.ayer (if observed):									
	Туре:		None	_		Hydric	Soil Present?		Yes	_ No <u></u> _
	Depth (inches):									
Remarks:	·	_								
	indication of hydri	c soils w	as observed. The	crite	rion for l	nvdric so	nil is not met			
ivo positive	malcation of riyari	C 30113 W	as observed. The	· CITC		iyanc se	on is not met.			



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Spra	kers, Montgomery County	<u>'</u>	Sampling Date: 202	21-Sept-16
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-EE	S-23_UPL-2
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA	A	
Landform (hillslope, terrace, etc.)): Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	.RR L		Lat: 42.8445081	Long:_	-74.4907152	Datum: WGS84
Soil Map Unit Name: Darien si	ilt loam, 3 to 8 per	cent slopes			NWI classificatio	n: None
Are climatic/hydrologic condition	is on the site typica	al for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	
Are Vegetation <u></u> ✓, Soil <u>✓</u> ,	or Hydrology ₋	✓ significantly dis	sturbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology ₋	naturally probl	ematic? (If needed,	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site map	showing sampling	ng point locations, trar	nsects, im	nportant features,	etc.
Hydrophytic Vegetation Present		No	<u> </u>		·	
			La Ala a Cananala di Anna a sidala	: \\\	- d2 - V-	- No d
Hydric Soil Present?		_ ∠ _ No	Is the Sampled Area with	in a wetian	id? Yes	s No <u>/</u>
Wetland Hydrology Present?	Yes _	No	If yes, optional Wetland S	Site ID:		
Remarks: (Explain alternative pr	ocedures here or i	n a separate report))			
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; c	heck all that apply)		-	y Indicators (minimum	of two required)
Surface Water (A1)		_ Water-Stained Lea	ves (B9)		e Soil Cracks (B6)	
High Water Table (A2)	_	 Aquatic Fauna (B1			age Patterns (B10)	
Saturation (A3)	_	Marl Deposits (B15			Trim Lines (B16)	
Water Marks (B1)	_	_ Hydrogen Sulfide	Odor (C1)	-	eason Water Table (C2)	
Sediment Deposits (B2)	_	_ Oxidized Rhizosph	eres on Living Roots (C3)	-	sh Burrows (C8) ation Visible on Aerial I	magany (CQ)
Drift Deposits (B3)	_	_ Presence of Reduc	ced Iron (C4)		ed or Stressed Plants (I	-
Algal Mat or Crust (B4)	_		tion in Tilled Soils (C6)		orphic Position (D2)	51)
Iron Deposits (B5)	_	_ Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial	0 ,	_ Other (Explain in F	Remarks)		topographic Relief (D4))
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)	,
Field Observations:						
Surface Water Present?	Yes No _	✓ Depth (inches):			
Water Table Present?	Yes No _	✓ Depth (inches):	- Wetland F	Hydrology Present?	Yes No _ ✓
Saturation Present?	Yes No _		inches):	-	,	
	res NO _	_ √ _ Deptii (<u></u>	-		
(includes capillary fringe)						
Remarks: The criterion for wetland hydrol						

				1		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
2.				Total Number of Dominant Species		(D)
3.				Across All Strata:	11	(B)
4.				Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		(A/B)
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	<u>By:</u>
· -	0	= Total Cov	or .	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		- Total Cov	Ci	FACW species 0	x 2 =	0
1.				FAC species 0	x 3 =	0
				FACU species 5	x 4 =	20
2				UPL species 70	x 5 =	350
3.				Column Totals 75	(A)	370 (B)
4				Prevalence Index = B/A =	4.9	
5.				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	ı
7				2 - Dominance Test is > 50%	Ü	
	0	= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptation:	s¹ (Provide	supporting
1. Zea mays	70	Yes	UPL	data in Remarks or on a separate s	heet)	
2. <u>Vicia americana</u>	5	No	FACU	Problematic Hydrophytic Veg	etation¹ (E>	(plain)
3				¹Indicators of hydric soil and wetla	nd hydrolo	gy must be
4				present, unless disturbed or proble	ematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	or more in	diameter at
7				breast height (DBH), regardless of	neight.	
8				Sapling/shrub – Woody plants less		DBH and
9				greater than or equal to 3.28 ft (1 r		
10				Herb – All herbaceous (non-woody		gardless of
11				size, and woody plants less than 3.		
12				Woody vines – All woody vines great	iter than 3.	.28 ft in
	75	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Present?	Yes N	No
1						
2						
3.						
4.						
	0	= Total Cov	er			
Remarks: (Include photo numbers here or on a separat	o choot)	<u> </u>				
Active agricultural field. No positive indication of hydro		station was	observed (>	=E004 of dominant species indeved as	EAC- or d	lrior)
Active agricultural field. No positive indication of flydro	priytic vege	etation was	observed (≥	250% of dominant species indexed as	, FAC- or u	irier).

Profile Des	cription: (Describe	to the	depth needed to	docui	nent the	indicato	r or confirm the al	bsence of indicators.)
Depth	Matrix		Redo	x Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	e Remarks
0 - 7	10YR 4/3	100					Silt Loan	m
7 - 13	10YR 3/1	90	2.5YR 4/6	10	C	M/PL	Silty Clay	у
13 - 18	2.5Y 3/1	85	5YR 5/6	15		M	Rocky Cla	
								· y
				_				
¹Type: C = 0	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	trix, MS =	= Masked	Sand Grains. ² Lo	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue B	elow	Surface (S8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark S	urfac	e (S9) (LR	R R, MLR	A 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muc	-			_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
,	en Sulfide (A4)		Loamy Gley					Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Depleted M					Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A1						Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da			/)		Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Redox Depr	essio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Material (F21)
	d Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, I	MLRA 1	49B)					Other (Explain in Remarks)
3Indicators	of hydrophytic veg	getation	and wetland hvo	drolog	zv must l	be preser	nt. unless disturbe	ed or problematic.
	Layer (if observed)					T		1
	Type:		None			Hydric	Soil Present?	Yes _✓_ No
	Depth (inches):	-	. 10.10			,		
Remarks:	Deptir (iricites).	_						
	ndication of budgic	. coil wa	s observed The	critor	on for h	udric coil	ic mat	
A positive i	ndication of hydric	. SOII Wa	is observed. The o	riteri	OH TOT TI	yuric soii	is met.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	ject	City/County: Spra	akers, Montgomery County	,	Sampling Date: 202	1-Sept-16
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-EE	S-24_PEM-1
Investigator(s): Ethan Snyder, A	Abi Light		Section, Township,	Range: NA	<u> </u>	
Landform (hillslope, terrace, etc.)	: Flat		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 0 to 1
Subregion (LRR or MLRA): L	RR L	_	Lat: 42.8429515	Long:	-74.4968284	Datum: WGS84
Soil Map Unit Name: Churchvi	lle silty clay loam	, 3 to 8 percent slope	es		NWI classification	n: None
Are climatic/hydrologic condition	s on the site typi	cal for this time of ye	ar? Yes No	(If no	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology	significantly di	sturbed? Are "Norm	al Circumst	ances" present?	∕es <u> </u> No
Are Vegetation, Soil,	or Hydrology	naturally prob	lematic? (If needed,	explain any	y answers in Remarks.))
SUMMARY OF FINDINGS – A	ttach site mar	showing sampli	ng point locations, trar	nsects, im	portant features, e	etc.
Hydrophytic Vegetation Present	? Yes	No				
Hydric Soil Present?		No	Is the Sampled Area withi	in a Wetland	d? Vas	No
			i i			
Wetland Hydrology Present?		No	If yes, optional Wetland S	ite iD:	VV-Et	S-24
Remarks: (Explain alternative pro						
Covertype is PEM. Area is wetlan	ıd, all three wetla	and parameters are p	resent.			
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required;	check all that apply)		Secondary	Indicators (minimum	of two required)
Surface Mater (A1)		() Matau Ctainad Las	(DO)	Surface	e Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)		_∕ Water-Stained Lea Aquatic Fauna (B1		_ ∠ Draina	ge Patterns (B10)	
Saturation (A3)	-	Aquatic Fauria (B1 Marl Deposits (B1		Moss T	rim Lines (B16)	
Water Marks (B1)	-	Hydrogen Sulfide		-	ason Water Table (C2)	
Sediment Deposits (B2)	-		neres on Living Roots (C3)	-	h Burrows (C8)	
Drift Deposits (B3)	=	Presence of Redu	_		tion Visible on Aerial Ir	•
Algal Mat or Crust (B4)	-		ction in Tilled Soils (C6)		d or Stressed Plants (D	01)
Iron Deposits (B5)	-	Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial I	magery (B7)	Other (Explain in l			w Aquitard (D3)	
Sparsely Vegetated Concave	Surface (B8)				opographic Relief (D4)	
Field Observations				FAC-NE	eutral Test (D5)	
Field Observations:	Vos No	Donth	(inches):			
Surface Water Present?	Yes No	•	(inches):	-[.,
Water Table Present?	Yes No	Depth	(inches):	- Wetland H	lydrology Present?	Yes No
Saturation Present?	Yes No	Depth	(inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	ı gauge, monitori	ing well, aerial photo	s, previous inspections), if a	available:		
Remarks:						
The criterion for wetland hydrology	ogvis met A nos	itive indication of we	tland hydrology was obser	ved (nrimar	ay and secondary indic	ators were present)
The chiefforf for wetland hydron	ogy is filet. A pos	itive indication of we	dand flydrology was obser	veu (primai	y and secondary muc	ators were present).

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Number of Dominan Are OBL, FACW, or FA	t Species That	3	(A)
1				Total Number of Dor Across All Strata:		3	(B)
4.				Percent of Dominant Are OBL, FACW, or FA		100	(A/B)
5.				Prevalence Index wo	rksheet:		
6.				Total % Cov	er of:	<u>Multiply</u>	<u>By:</u>
7				- OBL species	10	x 1 =	10
	0	= Total Cov	er	FACW species	105	x 2 =	210
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1				- FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	115	(A)	220 (B)
4				- Prevalence	Index = B/A =	1.9	
5				Hydrophytic Vegetati			
6				1- Rapid Test fo		/ogotation	,
7				2 - Dominance		regetation	ı
Herb Stratum (Plot size: _ 5 ft)	0	= Total Cov	er	3 - Prevalence I	ndex is ≤ 3.0^1		
1. Solidago gigantea	40	Yes	FACW	4 - Morphologic			supporting
Onoclea sensibilis	35	Yes	FACW	- data in Remarks or o			
3. Impatiens capensis	<u></u>	Yes	FACW	- Problematic Hy			-
4. Eutrochium maculatum	10	No	OBL	¹Indicators of hydric		,	gy must be
5. Phalaris arundinacea		No	FACW	present, unless distu		matic	
6.		NO	FACW	Definitions of Vegeta			
				Tree – Woody plants			diameter at
7.				breast height (DBH), Sapling/shrub – Woo	_	_	DDLLand
8.				greater than or equa	, ·		JDH allu
9.				Herb – All herbaceou			gardless of
10				size, and woody plan			gai diess oi
11				Woody vines – All wo			28 ft in
12				height.			.20
	115	= Total Cov	er	Hydrophytic Vegetat	tion Present?	/os / N	Jo.
Woody Vine Stratum (Plot size:30 ft)				Tiyuropriyac vegetai	don Fresent:	162 _4_ 1	NO
1				-			
2				-			
3				_			
4				-			
	0	= Total Cov	er				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Desc	ription: (Describe t	to the	depth needed to	docui	ment the	indicato	r or confirm the	absence of indicators.)
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Te	exture	Remarks
0 - 5	10YR 5/2	95	2.5YR 4/4	5	С	M/PL	Silty C	Clay Loam	
5 - 11.5	2.5Y 5/2	90	5YR 5/6	10		M		Clay Loam	
11.5 - 18	10YR 5/2	90	5YR 5/6	10	C	M		ly Silty Clay	
									_
	•		-				-	 -	
							-		
							-		
¹Type: C = C	oncentration, D = I	Deplet	ion, RM = Reduce	d Ma	trix, MS =	= Masked	Sand Grains. 2	Location: PL = Pore Lir	ning, M = Matrix.
Hydric Soil I	ndicators:							Indicators for Prob	lematic Hydric Soils³:
Histosol	(A1)		Polyvalue B	elow	Surface ((S8) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark S	urface	e (S9) (LR	R R, MLR	A 149B)		edox (A16) (LRR K, L, R)
Black His	stic (A3)		Loamy Muc	ky Mi	neral (F1) (LRR K,	L)		at or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gley	ed M	atrix (F2)			Dark Surface (S	
	d Layers (A5)		<u></u> Depleted M						v Surface (S8) (LRR K, L)
	d Below Dark Surfa	ice (A1						Thin Dark Surfa	
	rk Surface (A12)		Depleted Da			7)			e Masses (F12) (LRR K, L, R)
_	ucky Mineral (S1)		Redox Depr	essio	ns (F8)			•	dplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)								A6) (MLRA 144A, 145, 149B)
_	edox (S5)							Red Parent Mat	
Stripped	Matrix (S6)							Very Shallow Da	
Dark Sur	face (S7) (LRR R, M	ILRA 1	49B)					Other (Explain i	
3Indicators o	of hydrophytic veg	etation	and wetland hyd	irolos	v must h	ne preser	nt. unless disturb	ed or problematic.	
	ayer (if observed):			0.08	5)	1	, a	ea or prosiemana	
Nestricave E	Type:		None			Hydric	Soil Present?	,	Yes∕_ No
	Depth (inches):	-	None			l'iyunc.	Jon i reserie:	'	ies <u>v</u> 140
	Deptit (iliches).					1		 -	
Remarks:									
A positive in	dication of hydric	soil wa	as observed. The	criteri	on for hy	ydric soil	is met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County:_ Spra	kers, Montgomery County	/	Sampling Date: 20	21-Sept-16	
Applicant/Owner: SunEast			State: Nev	w York S	ampling Point: W-E	ES-24_UPL-1	
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	, Range: NA			
Landform (hillslope, terrace, etc.)	: Hillslope		Local relief (concave, conv	vex, none):	Undulating	Slope (%): 1 to 3	
Subregion (LRR or MLRA):	RR L		Lat: 42.8428485	Long: -	-74.4968153	Datum: WGS84	
Soil Map Unit Name: Lordstov	vn gravelly silt loar	n, 3 to 8 percent slo	pes		NWI classification	on: None	
Are climatic/hydrologic condition	s on the site typica	al for this time of yea	ar? Yes <u>✓</u> No)(If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	turbed? Are "Norm	al Circumsta	ances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology ₋	naturally proble	ematic? (If needed,	explain any	answers in Remarks	5.)	
SUMMARY OF FINDINGS – A	Attach site map	showing samplin	ng point locations, trar	nsects, im	portant features,	etc.	
Hydrophytic Vegetation Present	-	No	<u> </u>	<u> </u>	•		
			la tha Camania di Anaa with	.i.a. a. \A/a4la.a.	-12 V-	Na ć	
Hydric Soil Present?		_ ✓ _ No	Is the Sampled Area with		u? te	es No/	
Wetland Hydrology Present?	Yes _	No	If yes, optional Wetland S	Site ID:	·		
Remarks: (Explain alternative pro-	ocedures here or i	n a separate report)					
Covertune is LIDI. Area is unland	l not all three wet	land narameters are	procent				
Covertype is UPL. Area is upland	i, not all three wet	iand parameters are	present.				
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; c	heck all that apply)		Secondary	Indicators (minimun	n of two required)	
•	•			Surface	Soil Cracks (B6)	•	
Surface Water (A1)	_	_ Water-Stained Lea		Drainage Patterns (B10)			
High Water Table (A2)	_	_ Aquatic Fauna (B1		Moss Trim Lines (B16)			
Saturation (A3)	_	_ Marl Deposits (B15	5)	Moss friff Lifes (BTo) Dry-Season Water Table (C2)			
Water Marks (B1)	_	_ Hydrogen Sulfide (Odor (C1)	-	n Burrows (C8))	
Sediment Deposits (B2)	_	_ Oxidized Rhizosph	eres on Living Roots (C3)	-		Imagan, (CO)	
Drift Deposits (B3)		_ Presence of Reduc	ed Iron (C4)		ion Visible on Aerial		
Algal Mat or Crust (B4)		Recent Iron Reduc	tion in Tilled Soils (C6)		d or Stressed Plants (טו)	
Iron Deposits (B5)	_	 Thin Muck Surface			rphic Position (D2)		
Inundation Visible on Aerial I	magery (B7)	_ Other (Explain in R			Aquitard (D3)		
	•	_ Other (Explain in it	terriar K3)	Microto	pographic Relief (D4	!)	
Sparsely Vegetated Concave	Surface (B8)				utral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No _	✓ Depth (inches):				
		·		- 		Voc. No.	
Water Table Present?	Yes No _		inches):	- welland Hy	ydrology Present?	Yes No	
Saturation Present?	Yes No _	<u>✓</u> Depth (inches):	_			
(includes capillary fringe)							
Describe Recorded Data (stream	a gauge monitorin	g well parial photos	provious inspections) if	available:		•	
Describe Recorded Data (stream	i gauge, monitorii	ig weii, aeriai priotos	, previous irispections), ir a	avallable.			
Remarks:							
The criterion for wetland hydrol	ogy is not met. No	positive indication of	of wetland hydrology was o	observed.			
	-8)						

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	2	(4)
1. Tsuga canadensis	65	Yes	FACU	Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant Species	4	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That	50	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.		•		Total % Cover of:	<u>Multiply</u>	-
	65	= Total Cov	er	OBL species 0	x 1 = _	0
Sapling/Shrub Stratum (Plot size:15 ft)		-	-	FACW species 0	x 2 =	0
1. Carpinus caroliniana	20	Yes	FAC	FAC species 27	x 3 =	81
2. Carya cordiformis		No	FAC	FACU species 72	x 4 =	288
3. Prunus serotina		No	FACU	UPL species 0	x 5 =	0
		INU	FACU	Column Totals 99	(A)	369 (B)
4				Prevalence Index = B/A =	3.7	
5.				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is > 50%	Ü	
	27	= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	¹ (Provide	supporting
1. Veronica officinalis	5	Yes	FACU	data in Remarks or on a separate s		11 0
2. Toxicodendron radicans	2	Yes	FAC	Problematic Hydrophytic Vege	etation¹ (Ex	plain)
3.				¹Indicators of hydric soil and wetlar	nd hydrolo	gy must be
4				present, unless disturbed or proble		33
5				Definitions of Vegetation Strata:		
6.				Tree – Woody plants 3 in. (7.6 cm) o	or more in	diameter at
7.				breast height (DBH), regardless of I		
8.				Sapling/shrub - Woody plants less	than 3 in. [DBH and
9.				greater than or equal to 3.28 ft (1 n		
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11				size, and woody plants less than 3	28 ft tall.	
11 12.				Woody vines – All woody vines grea	iter than 3.	28 ft in
		= Total Cov	or	height.		
Woody Vino Stratum (Diet size) 20 ft		_ TOTAL COV	ei	Hydrophytic Vegetation Present?	Yes N	lo 🗸
Woody Vine Stratum (Plot size: <u>30 ft</u>) 1.						
2						
Z						
3						
4						
	0	_= Total Cov	er			
Remarks: (Include photo numbers here or on a sepa No positive indication of hydrophytic vegetation was	-	50% of dom	ninant specie	es indexed as FAC– or drier).		

	cription: (Describe	to the	•			e indicator	or confirm the al	osence of indicate	ors.)
Depth _	Matrix		Redo			Los?	Toute	uro	Domarko
(inches) 0 - 8	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text		Remarks
	10YR 4/3	98	5YR 5/6	2	C	M/PL	Silt Lo		
8 - 15	10YR 5/2	90	5YR 5/8	10	C	<u>M</u>	Rocky Si	пу стау	
				· —		· ——			
		- —							
		- —							
				. —					
				. —					
¹Type: C = C	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS	= Masked	Sand Grains. ² Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histoso			Polyvalue B	elow	Surface	(S8) (LRR I	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark S						e Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mud	-			.)		Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley)		-	e (S7) (LRR K, L)
	d Layers (A5)	()	_ <u>✓</u> Depleted M					Polyvalue B	elow Surface (S8) (LRR K, L)
	d Below Dark Surf ark Surface (A12)	ace (A	TT) Redox Dark Depleted D			7)		Thin Dark S	urface (S9) (LRR K, L)
	Jucky Mineral (S1)		Redox Dep			/)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
-	Gleyed Matrix (S4)		Redox Dep	162210	115 (го)			Piedmont F	loodplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spod	ic (TA6) (MLRA 144A, 145, 149B)
-								Red Parent	
	d Matrix (S6)	MIDA 1	140D)					Very Shallo	w Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, I	VILKA	1498)					Other (Expl	ain in Remarks)
3Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must	be presen	t, unless disturbe	d or problematic	•
Restrictive I	Layer (if observed)	:							
	Type:		None	_		Hydric S	oil Present?		Yes No
	Depth (inches):								
Remarks:				-					
A positive in	ndication of hydric	soil w	as observed. The	criter	ion for h	ydric soil	is met. Refusal du	e to coarse fragn	nents.
	-								



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject <u>City/County:</u> Can	ajoharie, Montgomery Count	y Sampling Date:	2021-Sept-16		
Applicant/Owner: SunEast		State: New \	York Sampling Point:	W-EES-25_PEM-1		
Investigator(s): Ethan Snyder,	Abi Light	Section, Township, Ra	ange: NA			
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, convex	c, none): Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	RR L	Lat: 42.8334948	Long: -74.5098029	Datum: WGS84		
Soil Map Unit Name: Darien si	ilt loam, 3 to 8 percent slopes		NWI classifi	cation: None		
Are climatic/hydrologic condition	ns on the site typical for this time of ye		(If no, explain in Rema	rks.)		
Are Vegetation <u></u> ✓, Soil,	or Hydrology significantly dis		Circumstances" present?	Yes No _ _ /		
Are Vegetation, Soil,	or Hydrology naturally probl	lematic? (If needed, ex	xplain any answers in Rem	arks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, trans	ects, important featui	es, etc.		
Hydrophytic Vegetation Present	? Yes No	1				
Hydric Soil Present?		Is the Sampled Area within a	a Watland?	Voc. / No.		
•	Yes _ ✓ _ No	<u>'</u>		Yes/_ No		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site	ID:	W-EES-25		
Remarks: (Explain alternative pr	ocedures here or in a separate report)				
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of	one is required; check all that apply)		econdary Indicators (mini	mum of two required)		
Surface Water (A1)	Water-Stained Lea	aves (B9)	✓ Surface Soil Cracks (B6)	· ·		
High Water Table (A2)	 ∕ Aquatic Fauna (B1		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B1		Moss Trim Lines (B16)	. (C2)		
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table Crayfish Burrows (C8)	: (C2)		
Sediment Deposits (B2)	·	heres on Living Roots (C3) $$	_ Crayiish Burrows (Co) ✓ Saturation Visible on Ae	rial Imageny (C9)		
Drift Deposits (B3)	Presence of Redu	ced Iron (C4)	_ Stunted or Stressed Pla			
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)	Geomorphic Position (D			
Iron Deposits (B5)	Thin Muck Surface	e (C/)	Shallow Aquitard (D3)	_,		
Inundation Visible on Aerial	9	Remarks)	✓ Microtopographic Relief	(D4)		
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test (D5)	. ,		
Field Observations:						
Surface Water Present?	Yes 🗸 No Depth	(inches):				
Water Table Present?	Yes <u></u> ✓ No Depth	(inches): 2 M	Vetland Hydrology Presen	t? Yes No		
Saturation Present?		(inches):	, , , , , , , , , , , , , , , , , , , ,			
	тез по	(111c11e3).				
(includes capillary fringe)						
Remarks:	n gauge, monitoring well, aerial photo: ogy is met. A positive indication of we			indicators were present).		

	Dominant Species?	Status	Number of Dominar	nt Species That	2	(A)
			_		2	(B)
					100	(A/B)
			Prevalence Index wo	rksheet:		
			- <u>Total % Cov</u>	<u>ver of:</u>	<u>Multiply</u>	<u> Ву:</u>
			- OBL species	60	x 1 =	60
0	= Total Cov	er	FACW species	45	x 2 =	90
			FAC species	0	x 3 =	0
			- FACU species	15	x 4 =	60
			- UPL species	0	x 5 =	0
			- Column Totals	120	(A)	210 (B)
			- Prevalence	e Index = B/A =	1.8	,
			•		-	
					/ogotation	2
			*		regetation	•
0	_= Total Cov	er				
					¹ (Provide	sunnorting
60	Yes	OBL				Supporting
30	Yes	FACW		•	•	xplain)
15	No	FACW	-			-
15	No	FACU	_ present, unless distu	urbed or proble	matic	
			Definitions of Vegeta	ation Strata:		
			Tree – Woody plants	3 in. (7.6 cm) o	r more in	diameter at
			breast height (DBH),	regardless of h	eight.	
			Sapling/shrub - Woo	ody plants less t	han 3 in.	DBH and
			greater than or equa	al to 3.28 ft (1 m) tall.	
				•		gardless of
			size, and woody plar	nts less than 3.2	8 ft tall.	
				oody vines grea	ter than 3	3.28 ft in
120	= Total Cov	er	height.			
-	=		Hydrophytic Vegeta	tion Present? \	Yes <u></u> ✓_ I	No
			-			
			-			
			-			
	= Total Cov	er	-			
	0 60 30 15	0 = Total Cov 0 = Total Cov 60 Yes 30 Yes 15 No 15 No 120 = Total Cov		Are OBL, FACW, or F. Total Number of Don Across All Strata: Percent of Dominan Are OBL, FACW, or F. Prevalence Index wo Total % Cox OBL species FACW species FACW species FACU species UPL species Column Totals Prevalence Hydrophytic Vegetat 1 - Rapid Test for 2 - Dominance 4 - Morphologi data in Remarks or or or problematic Hydrosyntic Hydr	Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 60 FACW species 15 UPL species 0 Column Totals 120 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic V ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹ — 4 - Morphological Adaptations data in Remarks or on a separate st Problematic Hydrophytic Vege 15 No FACU 15 No FACU 15 No FACU 15 No FACU 15 No FACU 15 No FACU 15 No FACU 16 Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) ob reast height (DBH), regardless of h Sapling/shrub - Woody plants less t greater than or equal to 3.28 ft (1 m Herb - All herbaceous (non-woody) size, and woody plants less than 3.2 Woody vines - All woody vines great height. Hydrophytic Vegetation Present? Notes that the present is present. 120 = Total Cover	Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply OBL species 60 x1 = FACW species 45 x2 = FAC species 0 x3 = FACU species 0 x5 = Column Totals 120 (A) Prevalence Index = B/A = 1.8 Hydrophytic Vegetation Indicators: ✓ 1- Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹ — 4 - Morphological Adaptations¹ (Provide data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (E 1ndicators of hydric soil and wetland hydrologresent, unless disturbed or problematic Definitions of Vegetation Strata: Tree - Woody plants a 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. Herb - All herbaceous (non-woody) plants, resize, and woody vines greater than 3 height. Hydrophytic Vegetation Present? Yes ✓ Indicators Present? Yes ✓ Indicators All woody vines greater than 3 height. Hydrophytic Vegetation Present? Yes ✓ Indicators Present? Yes ✓ In

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Depth _	Matrix	to trie t	Redo			indicator	or confirm the	absence of indicato	rs.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture	Remarks
0 - 6	10YR 3/2	95	5YR 5/6	5	C	M/PL	Silty Cla	ay Loam	
6 - 11.5	10YR 4/1	95	5YR 5/4	5	С	М		Clay	
11.5 - 18	2.5Y 5/1	85	7.5YR 5/6	15	C	M		lay	
				_					
¹Type: C = C	oncentration, D =	Depleti	ion, RM = Reduce	d Ma	trix, MS =	= Masked S	Sand Grains. ²	Location: PL = Pore	Lining, M = Matrix.
Hydric Soil I	ndicators:							Indicators for Pr	oblematic Hydric Soils³:
Histosol							R, MLRA 149B)	2 cm Muck (410) (LRR K, L, MLRA 149B)
,	ipedon (A2)		Thin Dark S						Redox (A16) (LRR K, L, R)
Black His			Loamy Muc)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) l Layers (A5)		Loamy Gley / Depleted M					Dark Surface	e (S7) (LRR K, L)
	l Layers (A5) l Below Dark Surfa	ace (A1							low Surface (S8) (LRR K, L)
	rk Surface (A12)	111) 221	Depleted Da			7)			rface (S9) (LRR K, L)
	ucky Mineral (S1)		Redox Depr			,		_	nese Masses (F12) (LRR K, L, R)
Sandy G	leyed Matrix (S4)								oodplain Soils (F19) (MLRA 149B)
Sandy Re									(TA6) (MLRA 144A, 145, 149B)
_	Matrix (S6)							Red Parent N	
	face (S7) (LRR R, N	ILRA 14	49B)					Very Shallow Other (Expla	Dark Surface (TF12)
21 11 1								-	iii iii Kemarks)
•			and wetland nyo	irolog	gy must r	oe present	t, uniess disturb	ed or problematic.	
	ayer (if observed):		None			Lhudria C	oil Drocont?	,	vos (No
	Type:	-	None			Hydric S	oil Present?		Yes∕_ No
	Depth (inches):								
Remarks:	diagrica of bundais	:!	a abasin iad Tha			ناند مینان			
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for h	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for h	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for h	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for h	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for hy	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	is observed. The	criter	ion for hy	ydric soil i	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for hy	ydric soil is	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for hy	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for hy	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for hy	ydric soil i:	s met.		
Remarks:	dication of hydric	soil wa	as observed. The	criter	ion for h	ydric soil i:	s met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Project	oject	City/County: Cana	ajoharie, Montgomery Cour	nty	Sampling Date: 202	21-Sept-16
Applicant/Owner: SunEast			State: New	v York	Sampling Point: W-EE	S-25_UPL-1
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA	A	
Landform (hillslope, terrace, etc.): Hilltop		Local relief (concave, conve	ex, none):	Convex	Slope (%): 1 to 3
Subregion (LRR or MLRA):	.RR L		Lat: 42.833517	Long:_	-74.5093842	Datum: WGS84
Soil Map Unit Name: Darien s	ilt loam, 3 to 8 perce	ent slopes			NWI classification	n: None
Are climatic/hydrologic condition	is on the site typical	for this time of ye	ar? Yes <u>✓</u> No	(If no	o, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumst	tances" present?	Yes No _ _ /_
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed, e	explain an	y answers in Remarks.	.)
SUMMARY OF FINDINGS – A	Attach site map s	showing sampling	ng point locations, tran	sects, im	nportant features, e	etc.
	•		<u> </u>	-	<u>'</u>	
Hydrophytic Vegetation Present		No	 		.	
Hydric Soil Present?		No _ _ _	Is the Sampled Area withir	n a Wetland	d? Yes	sNo <u>_</u> ✓
Wetland Hydrology Present?	Yes _	No _ _ _	If yes, optional Wetland Sit	te ID:		
Remarks: (Explain alternative pr Covertype is UPL. Area is upland				re not norr	mal due to mowing of	vegetation.
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; ch	eck all that apply)		-	y Indicators (minimum	of two required)
Surface Water (A1)		Water-Stained Lea	aves (B9)		e Soil Cracks (B6)	
High Water Table (A2)		Aquatic Fauna (B1			age Patterns (B10)	
Saturation (A3)		Marl Deposits (B1	5)		Trim Lines (B16)	
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	-	eason Water Table (C2) sh Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosph	neres on Living Roots (C3)	-	ation Visible on Aerial II	magany (C9)
Drift Deposits (B3)		Presence of Redu	ced Iron (C4)		ed or Stressed Plants ([
Algal Mat or Crust (B4)			ction in Tilled Soils (C6)		orphic Position (D2)	21)
Iron Deposits (B5)		Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial		Other (Explain in F	Remarks)		topographic Relief (D4))
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	∠ Depth	(inches):			
Water Table Present?	Yes No	∠ Depth	(inches):	Wetland F	Hydrology Present?	Yes No _ ✓
Saturation Present?	Yes No,		(inches):			
(includes capillary fringe)	.6516	<u> </u>				
			i i i i i			
Describe Recorded Data (stream	1 gauge, monitoring	g weii, aeriai pnotos	s, previous inspections), if a	avallable:		
Remarks:						
The criterion for wetland hydrol	ogy is not met. No p	oositive indication	of wetland hydrology was o	bserved.		

				_			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S			
1.	70 COVC.	эресісэ.	Status	Are OBL, FACW, or FAC	•	0	(A)
2.				Total Number of Domi	nant Species	2	(D)
3.				Across All Strata:			(B)
4.				Percent of Dominant S	pecies That	0	(A/B)
5.				Are OBL, FACW, or FAC	:		(// 0)
6.				Prevalence Index work	sheet:		
7.				<u>Total % Cover</u>	of:	Multiply	<u>By:</u>
··		= Total Cove	or.	OBL species	0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		_ TOTAL COVE	21	FACW species	0	x 2 =	0
•				FAC species	0	x 3 =	0
1				FACU species	95	x 4 =	380
2.				UPL species	0	x 5 =	0
3.				Column Totals	95	(A)	380 (B)
4				Prevalence Ir	ndex = B/A =	4	-
5				Hydrophytic Vegetation	n Indicators:	,	
6.				1- Rapid Test for I		/egetatior	า
7				2 - Dominance Te		.0	
	0	= Total Cove	er	3 - Prevalence Inc			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		¹ (Provide	supporting
1. Schedonorus pratensis	55	Yes	FACU	data in Remarks or on			0
2. Trifolium repens	25	Yes	FACU	Problematic Hydr			xplain)
3. <i>Poa pratensis</i>	15	No	FACU	¹Indicators of hydric so	il and wetlan	d hydrolc	gy must be
4				present, unless disturb		-	
5	_			Definitions of Vegetation	on Strata:		
6				Tree – Woody plants 3	in. (7.6 cm) oı	r more in	diameter at
7.				breast height (DBH), re	gardless of h	eight.	
8.				Sapling/shrub - Woody	/ plants less t	han 3 in.	DBH and
9.				greater than or equal t	o 3.28 ft (1 m) tall.	
10.				Herb – All herbaceous	-		gardless of
11.		· .		size, and woody plants			
12.				Woody vines – All wood	dy vines grea	ter than 3	.28 ft in
	95	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		=		Hydrophytic Vegetatio	n Present? \	/es l	No <u></u>
1.							
2.							
3.							
4.							
	0	= Total Cove	er				
		=:					
Remarks: (Include photo numbers here or on a separa							
No positive indication of hydrophytic vegetation was o	observed (≥	:50% of dom	inant specie	es indexed as FAC+ or dr	ier).		

	•	to the d	•			ndicator	or confirm the ab	sence of indicators.)		
Depth _	Matrix		Redo				_	- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		Texture		Remarks
0 - 6	10YR 4/3	100		_				elly Silt Loam		
6 - 13	10YR 4/2	98	7.5YR 4/6	2	C	M		Silty Clay Loam		
13 - 18	10YR 4/3	90	2.5YR 5/6	10	C	M	Grave	elly Silty Clay		
-										
-										_
-										
-								_		
_										
									-	
				_					-	
1T C = 0		Damlati	- DM - Dadwas		MC -	NAsalisali		antina DI — Dava Linina	NA - NA=+	-i.,
		Depletio	on, Rivi = Reduced	ı ıvıatı	IX, IVIS =	Masked	Sand Grains. ² Ld	ocation: PL = Pore Lining,		
Hydric Soil						a ==		Indicators for Problema	itic Hydri	ic Soils3:
Histoso							R, MLRA 149B)	2 cm Muck (A10) (LR	≀R K, L, M	ILRA 149B)
	pipedon (A2)		Thin Dark Su					Coast Prairie Redox	(A16) (LF	RR K, L, R)
	istic (A3)		Loamy Muck	-		(LRR K, L)	5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S7) (LI	RR K, L)	
	d Layers (A5) d Below Dark Surf	٦٥٥ (٨11	Depleted Ma					Polyvalue Below Sur	rface (S8) (LRR K, L)
	ark Surface (A12)	ace (ATT	Depleted Da					Thin Dark Surface (S	59) (LRR F	<, L)
	Mucky Mineral (S1)		Redox Depre					Iron-Manganese Ma	isses (F1	2) (LRR K, L, R)
_	Gleyed Matrix (S4)		Nedox Bepi	233101	13 (1 0)			Piedmont Floodplain	n Soils (F	19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 14	I4A, 145, 149B)
-								Red Parent Material		
	d Matrix (S6)		OD)					Very Shallow Dark S	urface (T	ΓF12)
Dark Su	ırface (S7) (LRR R, N	VILKA 14	96)					Other (Explain in Re	marks)	
³ Indicators	of hydrophytic veg	getation	and wetland hyd	rology	/ must be	presen	t, unless disturbed	d or problematic.		
Restrictive	Layer (if observed)	:								
	Type:		None			Hydric	Soil Present?		Yes	_ No <u></u> _
	Depth (inches):									
Remarks:										_
No positive	indication of hydr	ic soils v	vas observed. Th	e crite	rion for l	hydric so	il is not met.			
	, , . , . , . , . , . , . , . ,					,				



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Ame	es,		Sampling Date: 202	21-Sept-21
Applicant/Owner: SunEast			State: New	/ York	Sampling Point: W-EE	S-26_PEM-1
Investigator(s): Ethan Snyder,	Brian Corrigan, Abi	Light	Section, Township, I	Range: N	Α	
Landform (hillslope, terrace, etc.): Depression		Local relief (concave, conve	ex, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLRA): L	_RR L	_	Lat: 42.8339917	Long:	-74.5046224	Datum: WGS84
Soil Map Unit Name: Nunda c	hannery silt loam, 8	3 to 15 percent slop	es		NWI classificatio	n: None
Are climatic/hydrologic conditior	ns on the site typica	l for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed, e	explain an	y answers in Remarks	.)
SUMMARY OF FINDINGS – A	Attach site map s	showing samplir	ng point locations, tran	sects, im	portant features,	etc.
Hydrophytic Vegetation Present	? Yes	✓_ No				
Hydric Soil Present?		✓_ No	Is the Sampled Area withir	n a Wetlan	d? Vos	No
			·			
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·	<u> </u>	If yes, optional Wetland Sit	te ID:	W-E	ES-26
Remarks: (Explain alternative pr						
Covertype is PEM. Area is wetlar	nd, all three wetland	d parameters are p	resent.			
111/0001001						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	f one is required; ch	neck all that apply)		Secondary	y Indicators (minimum	of two required)
Surface Water (A1)	,	Water Stained Lea	wos (PO)	Surfac	e Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)		′_ Water-Stained Lea _ Aquatic Fauna (B1:		_ ∠ Draina	ige Patterns (B10)	
✓ Saturation (A3)		_ Aquatic Fauria (B1) _ Marl Deposits (B1)		_✓ Moss 7	Trim Lines (B16)	
Water Marks (B1)		_ Hydrogen Sulfide (-	ason Water Table (C2)	
Sediment Deposits (B2)			neres on Living Roots (C3)	-	sh Burrows (C8)	
Drift Deposits (B3)	_	Presence of Reduc	_		tion Visible on Aerial I	
Algal Mat or Crust (B4)			tion in Tilled Soils (C6)		d or Stressed Plants (I	01)
Iron Deposits (B5)	_	_ _ Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial		Other (Explain in R			w Aquitard (D3)	
Sparsely Vegetated Concave					opographic Relief (D4)	
Field Observations:				_V FAC-IN	eutral Test (D5)	
Surface Water Present?	Yes No _ .	/ Denth	(inches):			
			· — —	M - 41 1 1	hadaala oo Daaraa 2	Vac. 4 No.
Water Table Present?	Yes No		·	Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes 🟒 No	Depth	(inches): 0			
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitorinչ	g well, aerial photos	s, previous inspections), if a	vailable:		
Remarks:						
The criterion for wetland hydrol	logy is met. A positi	ve indication of wet	tland hydrology was obsery	ed (prima	rv and secondary indi	cators were present).
	-8,			φ	.,	

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species T	nat 4	(4)
1. Fraxinus pennsylvanica	15	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)
2. Acer saccharum	10	Yes	FACU	Total Number of Dominant Spe	cies 5	(B)
. Fraxinus nigra	5	No	FACW	Across All Strata:		
. Carya cordiformis	5	No	FAC	Percent of Dominant Species The Are OBL, FACW, or FAC:	at 80	(A/B)
·				Prevalence Index worksheet:	·	
				Total % Cover of:	Multiply	v Bv:
				- OBL species 0	x 1 =	0
	35	= Total Cov	er	FACW species 145	x 2 =	290
apling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species 25	x 3 =	75
Carpinus caroliniana	15	Yes	FAC	FACU species 10	x 4 =	40
· -				UPL species 2	x 5 =	10
				Column Totals 182	(A)	415 (B)
				Prevalence Index = B/		
·				Hydrophytic Vegetation Indicate	nrs.	
· <u></u>				1- Rapid Test for Hydrophy		n
				2 - Dominance Test is >509	_	
	15	= Total Cov	er	✓ 3 - Prevalence Index is ≤ 3		
<u>erb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptati		e supportin
. Impatiens capensis	45	Yes	FACW	data in Remarks or on a separa		
. Lysimachia nummularia	40	Yes	FACW	Problematic Hydrophytic \		xplain)
. Symphyotrichum novi-belgii	25	<u>No</u>	FACW	¹ Indicators of hydric soil and we	tland hydrol	ogy must be
. Symphyotrichum lanceolatum	15	No	FACW	present, unless disturbed or pro	blematic	
. Athyrium angustum	5	No	FAC	Definitions of Vegetation Strata		
Eurybia macrophylla	2	No	UPL	Tree – Woody plants 3 in. (7.6 cr	-	diameter a
· .				breast height (DBH), regardless	-	
				Sapling/shrub – Woody plants le		DBH and
·				greater than or equal to 3.28 ft		
0				Herb – All herbaceous (non-woo		egardiess o
1				size, and woody plants less than		2 20 ft in
2				Woody vines – All woody vines gheight.	greater than .	5.26 IL III
	132	= Total Cov	er	Hydrophytic Vegetation Presen	t? Yes ./	No
loody Vine Stratum (Plot size: 30 ft)				Tigat oprigue regetation i resen	ics_ <u>v</u>	
				-		
·				-		
•				-		
				-		
	0	= Total Cov	er			

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Morphological Adaptations). raised buttresses, exposed roots on trees .

	•	o the de				ndicator	or confirm the a	bsence of indicators	.)
Depth _	Matrix		Redox			12	Ŧ		Para artes
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		xture	Remarks
0 - 11.5	10YR 2/2	98	7.5YR 4/4	2	C	M		Loam	
11.5 - 18	10YR 3/1	100		_			Gravelly	/ Silt Loam	
				_					
				_					
				_					
				_					
				_					
				_					
				_					
				_				-	
¹Tvne: C = Co	ncentration D = F)enletior	RM = Reduced	— Mati	ix MS =	Masked	Sand Grains 2	.ocation: PL = Pore Li	ning M = Matrix
Hydric Soil Ir		repietioi	i, iiii iicaacca	- Tricati	17, 1113	Maskea	Saria Grams.		plematic Hydric Soils³:
Histosol (Polyvalue Bel)W S	urfaca (S	۵۱ (I DD I	MIDA 1/OR)		,
	pedon (A2)	-	Folyvalde Bei Thin Dark Sur						0) (LRR K, L, MLRA 149B)
Black His	•	-	Loamy Mucky						edox (A16) (LRR K, L, R)
	n Sulfide (A4)	-	Loamy Gleyed			(LIXIX IX, L	,	-	eat or Peat (S3) (LRR K, L, R)
	Layers (A5)		Depleted Mat					Dark Surface (S	
	Below Dark Surfa		•						w Surface (S8) (LRR K, L)
Thick Dar	rk Surface (A12)	_	Depleted Dar	k Sui	face (F7)			Thin Dark Surfa	
Sandy Mi	ucky Mineral (S1)	_	Redox Depres	ssior	ıs (F8)			•	se Masses (F12) (LRR K, L, R)
Sandy Gl	eyed Matrix (S4)								dplain Soils (F19) (MLRA 149B)
Sandy Re	edox (S5)							•	TA6) (MLRA 144A, 145, 149B)
-	Matrix (S6)							Red Parent Ma	
	face (S7) (LRR R, M	LRA 149	B)					Very Shallow D	
								Other (Explain	in Remarks)
	f hydrophytic vege	etation a	nd wetland hydr	olog	y must be	presen	t, unless disturbe	ed or problematic.	
Restrictive La	ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):								
Remarks:									
A positive in	dication of hydric s	oil was	observed. The cri	iterio	n for hy	dric soil i	s met.		
	,								



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject City/County: A	mes,	Sampling Date: 2021-Sept-20
Applicant/Owner: SunEast		State: New York	Sampling Point: W-EES-26_PFO-1
Investigator(s): Ethan Snyder,	Brian Corrigan, Abi Light	Section, Township, Range	: NA
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, no	ne): Undulating Slope (%): 1 to 3
Subregion (LRR or MLRA):	_RR L	Lat: 42.8318974 Lo	ong: -74.5061394
Soil Map Unit Name: Burdett	channery silt loam, 3 to 8 percent s	lopes	NWI classification: None
Are climatic/hydrologic condition	ns on the site typical for this time of	-	If no, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology significantly	disturbed? Are "Normal Circ	umstances" present? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed, expla	n any answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing sam	oling point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present		1	·
		In the Committed Americal thin a NA	No. (No.
Hydric Soil Present?	Yes No	Is the Sampled Area within a W	
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-EES-26
Remarks: (Explain alternative pr	ocedures here or in a separate rep	ort)	
•	· · · ·		
Covertype is PFO. Area is wetlar	nd, all three wetland parameters are	e present.	
	•	•	
IVDDOLOCV			
HYDROLOGY			
	-		
Wetland Hydrology Indicators:			
Primary Indicators (minimum of	f one is required; check all that appl	lv) Secoi	dary Indicators (minimum of two required)
<u> </u>	one is required, entert an enter app.	•	•
Surface Water (A1)	_ ✓ Water-Stained		ırface Soil Cracks (B6)
		Z 1)	ainage Patterns (B10)
✓ High Water Table (A2)	Aquatic Fauna	M	oss Trim Lines (B16)
✓ Saturation (A3)	Marl Deposits (1)	y-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfi	de Odor (C1)	ayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizo	SNNERES ON LIVING ROOFS (C.3)	turation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Re	duced Iron (C4)	
Algal Mat or Crust (B4)	Recent Iron Re	duction in Tilled Soils (C6)	unted or Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck Surf	G	eomorphic Position (D2)
Inundation Visible on Aerial		· · · SI	allow Aquitard (D3)
		M M	icrotopographic Relief (D4)
Sparsely Vegetated Concave	Surface (B8)		
			C-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No <u></u> ✓ Dep	oth (inches):	
Water Table Present?	Yes <u></u> ✓ No Dep	oth (inches): 2 Wetla	nd Hydrology Present? Yes No
		· , ,	
Saturation Present?	Yes <u></u> ✓ No Dep	oth (inches):	
(includes capillary fringe)			
Describe Recorded Data (stream	n gauge, monitoring well, aerial pho	otos, previous inspections), if availal	ole:
•		., , , , , , , , , , , , , , , , , , ,	
Remarks:			
The criterion for wetland hydrol	${}_{ m l}$ ogy is met. A positive indication of ${}_{ m l}$	wetland hydrology was observed (p	rimary and secondary indicators were present).
,	•		•

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Th	at ,			
1. Fraxinus pennsylvanica	60	Yes	FACW	Are OBL, FACW, or FAC:	4	(A)		
2. Tilia americana	25	Yes	FACU	Total Number of Dominant Spec	es 6	(B)		
3. Carpinus caroliniana	10	No	FAC	Across All Strata:				
4.				Percent of Dominant Species The Are OBL, FACW, or FAC:	66.7	(A/B)		
5.				Prevalence Index worksheet:				
6				Total % Cover of:	<u>Multiply</u>	Multiply By:		
7				OBL species 2	x 1 =	2		
	95	_= Total Cov	er	FACW species 65	x 2 =	130		
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 40	x 3 =	120		
1. Carpinus caroliniana	20	Yes	FAC	FACU species 30	x 4 =	120		
2. <u>Tilia americana</u>	5	Yes	FACU	UPL species 0	x 5 =	0		
3				Column Totals 137	(A)	372 (B)		
4				Prevalence Index = B/A	_ ` -	- ()		
5				Hydrophytic Vegetation Indicato				
6.				1- Rapid Test for Hydrophy				
7				2 - Dominance Test is >50%	ic vegetation			
	25	= Total Cov	er	\checkmark 2 - Dominance Test is >50% \checkmark 3 - Prevalence Index is \le 3.	1 1			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptation		cupporting		
1. Aegopodium podagraria	10	Yes	FAC	daţa in Remarks or on a separate		supporting		
2. Onoclea sensibilis	5	Yes	FACW	Problematic Hydrophytic V		rnlain)		
3. Carex vesicaria	2	No	OBL	Indicators of hydric soil and wet	-	•		
4.				present, unless disturbed or pro	-	gy must be		
5.				Definitions of Vegetation Strata:	5101110110			
6.				Tree – Woody plants 3 in. (7.6 cm) or more in (diameter at		
7.				breast height (DBH), regardless		alarricter at		
8.				Sapling/shrub – Woody plants le	-	OBH and		
0				greater than or equal to 3.28 ft (
10.				Herb – All herbaceous (non-woo		gardless of		
11.				size, and woody plants less than				
·				Woody vines – All woody vines g	eater than 3	.28 ft in		
12	17	= Total Cov	er	height.				
Woody Vine Stratum (Plot size:30 ft) 1	-			Hydrophytic Vegetation Present	? Yes <u>, </u>	lo		
2				.				
3								
4.								
	0	= Total Cov	er					

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Morphological Adaptations). raised buttresses, exposed roots on trees.

Profile Des Depth	cription: (Describe	to the	depth needed to			indicator or con	firm the al	bsence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Tov	ture	Remarks
0 - 8	10YR 3/1	95	7.5YR 4/6	5	С	M		Loam	Remarks
8 - 13	10YR 5/2	75	5YR 4/4	25				/ Clay	
	5YR 5/2	70		25		_M			
13 - 18	5YR 5/2	70	2.5YR 3/6			_M		elly Clay	
13 - 18	-	- —	2.5Y 5/1	5	D	_M_	Gravelly	Silty Clay	
		- —							
		- —							
		- —							
		- —							
¹Type: C = 0	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked Sand G	irains. ²Lo	ocation: PL = Pore Lin	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Probl	ematic Hydric Soils³:
Histoso						8) (LRR R, MLR A		2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)					R R, MLRA 149B))		edox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucl	-		(LRR K, L)			at or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley					Dark Surface (S	
	ed Layers (A5)	(Depleted M					Polyvalue Belov	v Surface (S8) (LRR K, L)
	ed Below Dark Surfa ark Surface (A12)	ace (A I	Depleted Da			,		Thin Dark Surfa	ce (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depr)		Iron-Manganese	e Masses (F12) (LRR K, L, R)
	•		Kedox Depi	622101	15 (F0)			Piedmont Flood	lplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic (Ta	A6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Red Parent Mat	
	d Matrix (S6)		10D)					Very Shallow Da	ark Surface (TF12)
Dark St	urface (S7) (LRR R, M	ILKA 1	49B)					Other (Explain i	n Remarks)
3Indicators	of hydrophytic veg	etatior	n and wetland hyd	Irolog	y must b	e present, unles	s disturbe	d or problematic.	
Restrictive	Layer (if observed):								
	Type:		None			Hydric Soil Pro	esent?	Υ	⁄es∕_ No
	Depth (inches):			-					
Remarks:	<u> </u>					L		·	
	ndication of hydric	soil wa	as observed. The o	riteri	on for hy	dric soil is met			
7 C POSICIVE 1	naication of flyanc	3011 110	as observed. The v		311 101 11y	arie son is mee.			



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Ame	es,		Sampling Date: 20	21-Sept-20
Applicant/Owner: SunEast		_	State: New	v York	Sampling Point: W-E	ES-26_UPL-1
Investigator(s): Ethan Snyder,	Brian Corrigan, Abi	Light	Section, Township,	Range: N	A	
Landform (hillslope, terrace, etc.): Hillslope		Local relief (concave, conve	ex, none):	Undulating	Slope (%): 1 to 3
Subregion (LRR or MLRA): L	.RR L		Lat: 42.832067	Long:	-74.506226	Datum: WGS84
Soil Map Unit Name: Burdett	channery silt loam,	3 to 8 percent slop	es		NWI classification	on: None
Are climatic/hydrologic conditior	ıs on the site typica	l for this time of ye	ar? Yes <u>✓</u> No	(If no	o, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circums	tances" present?	Yes <u></u> No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed, e	explain an	ny answers in Remarks	5.)
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pr Covertype is UPL. Area is upland	YesYesYes	No / No / No / n a separate report	Is the Sampled Area within If yes, optional Wetland Sid	n a Wetlan		etc. s No✓
HYDROLOGY Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; ch	neck all that apply)		Secondar	y Indicators (minimun	n of two required)
Surface Water (A1)		_ Water-Stained Lea	aves (B9)		ce Soil Cracks (B6)	
High Water Table (A2)		- _ Aquatic Fauna (B1			age Patterns (B10)	
Saturation (A3)		_ Marl Deposits (B1			Trim Lines (B16) eason Water Table (C2)
Water Marks (B1)	_	_ Hydrogen Sulfide		-	sh Burrows (C8)	.,
Sediment Deposits (B2)	_	· ·	neres on Living Roots (C3)	-	ation Visible on Aerial	Imagery (C9)
Drift Deposits (B3)	_	_ Presence of Redu			ed or Stressed Plants (
Algal Mat or Crust (B4)	_	=	tion in Tilled Soils (C6)		orphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface	• •	Shallo	w Aquitard (D3)	
Inundation Visible on Aerial Sparsely Vegetated Concave		Other (Explain in F	Remarks)		topographic Relief (D4	1)
Sparsely vegetated Concave	Juliace (Do)			FAC-N	leutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No _	✓ Depth	(inches):			
Water Table Present?	Yes No _	<u>✓</u> Depth	(inches):	Wetland I	Hydrology Present?	Yes No
Saturation Present?	Yes No _	✓ Depth	(inches):			
(includes capillary fringe)			·			
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photos	s, previous inspections), if a	vailable:		
Beschibe Recorded Bata (stream	, gaage, monitoring	5 Weil, derial priotos	o, previous inspections), ir a	runabic.		
Remarks:						
The criterion for wetland hydrol	logy is not mot No	positive indication	of watland bydrology was a	bearund		
The criterion for wetland hydroi	ogy is not met. No	positive indication	or wettand hydrology was o	bbserveu.		

				T		1
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	1	(4)
1. Tsuga canadensis	70	Yes	FACU	Are OBL, FACW, or FAC:		(A)
Tilia americana	25	Yes	FACU	Total Number of Dominant Species	5	(D)
3. Acer saccharum	10	No	FACU	Across All Strata:		(B)
		INO	FACO	Percent of Dominant Species That	20	(A (D)
4				Are OBL, FACW, or FAC:	20	(A/B)
5				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply I	Bv:
7				OBL species 0	x 1 =	0
	105	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 2	x3=	6
1. Fagus grandifolia	10	Yes	FACU		_	480
2.					x 4 =	
3.				UPL species 0	x 5 =	0
4.				Column Totals 122	(A)	486 (B)
5.				Prevalence Index = B/A =	4	
				Hydrophytic Vegetation Indicators:		
6				1- Rapid Test for Hydrophytic	/egetation	
7				2 - Dominance Test is > 50%	-8	
	10	= Total Cov	er	3 - Prevalence Index is ≤ 3.0¹		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptations	1 (Drovido i	supporting
1. Dryopteris marginalis	5	Yes	FACU	data in Remarks or on a separate sl	-	supporting
2. <i>Maianthemum stellatum</i>	2	Yes	FAC	· ·		nlain)
3.				Problematic Hydrophytic Vege		
4.				¹ Indicators of hydric soil and wetlan		gy must be
				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	_	
8				Sapling/shrub – Woody plants less t		BH and
9.				greater than or equal to 3.28 ft (1 m	ı) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants less than 3.2	8 ft tall.	
12.				Woody vines – All woody vines grea	ter than 3.	28 ft in
	7	= Total Cov	or	height.		
March Marc Charter (District 20 ft)		_ 10tal C0v	ei	Hydrophytic Vegetation Present?	Yes N	0 /
Woody Vine Stratum (Plot size:30 ft)				.,,		
1						
2						
3						
4.						
	0	= Total Cov	er			
		•				
Remarks: (Include photo numbers here or on a separat						
No positive indication of hydrophytic vegetation was ob	served (≥	50% of don	ninant specie	es indexed as FAC– or drier).		

	•	to the de	•			ndicator	or confirm the al	bsence of indicators.	.)		
Depth _	Matrix		Redox			12	Taud			D.	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text			RE	emarks
0 - 4	10YR 4/3	100		-			Silty Cla				
4 - 13	10YR 5/3	100	5)/5 4/4				Silty Cla	- -			
13 - 18	10YR 5/2	95	5YR 4/4	5	C	<u>M</u>	Silty Cla	y Loam			
				-							
				- —							
		·									
¹Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Li	ning,	M = Matri	ix.
Hydric Soil					•			Indicators for Prob			
Histosol			Polvvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)			•	
l ——	ipedon (A2)		Thin Dark Su					2 cm Muck (A1			
Black Hi	•		Loamy Mucky					Coast Prairie R			
	n Sulfide (A4)		Loamy Gleye				•	5 cm Mucky Pe			(LKK K, L, K)
	d Layers (A5)		Depleted Ma					Dark Surface (S Polyvalue Belo			(I DD I/ I)
Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	urfa	ce (F6)						• • •
Thick Da	irk Surface (A12)		Depleted Dar	k Su	rface (F7)			Thin Dark Surfa			
Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			Piedmont Floo			
Sandy G	leyed Matrix (S4)										
Sandy R	edox (S5)							Mesic Spodic (1 Red Parent Ma			IA, 145, 1496)
Stripped	l Matrix (S6)							Ked Parent Ma			=12)
	rface (S7) (LRR R, M	1LRA 149	9B)								-12)
								Other (Explain	III Kei	iiai KS)	
-	of hydrophytic veg		and wetland hydr	olog	y must be	presen	t, unless disturbe	d or problematic.			
Restrictive I	.ayer (if observed):										
	Type:		None	_		Hydric	Soil Present?	Ye	es	_ No /	, -
	Depth (inches):										
Remarks:											
No positive	indication of hydri	c soils w	as observed. The	crite	erion for l	hydric so	oil is not met.				
,	,										



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar P	roject	City/Co	ounty: Ames, Mo	ontgomery		Sampling Date: 20	21-Sept-21	
Applicant/Owner: SunEast			_	State: NY	Sa	ampling Point: W-E	ES-26_UPL-2	
Investigator(s): Ethan Snyder	, Brian Corrigan	, Abi Light		Section, Township,	Range: NA			
Landform (hillslope, terrace, et	c.): Hillslope	e	Loca	l relief (concave, conv	ex, none):	Indulating	Slope (%): 1 to 3	
Subregion (LRR or MLRA):	LRR L			Lat: 42.8339636	Long: -7	74.5046013	Datum: WGS84	
Soil Map Unit Name: Burdet	t channery silt lo	am, 3 to 8 p	ercent slopes	_		NWI classification	n: None	
Are climatic/hydrologic condition	ons on the site ty	pical for this	s time of year?	Yes <u></u> ✓ No	(If no, e	– explain in Remarks.))	
Are Vegetation, Soil	, or Hydrolo	gy sign	nificantly disturb	ed? Are "Norm	al Circumstar	nces" present?	Yes No	
Are Vegetation, Soil	, or Hydrold	gy nat	urally problemat	ic? (If needed,	explain any a	answers in Remarks	;.)	
SUMMARY OF FINDINGS -	Attach site m	an showir	ng sampling n	oint locations tran	ncarts imn	ortant features	etc	
		-		onic locations, trai	isects, imp	ortant reatures,	etc.	
Hydrophytic Vegetation Preser	it?	Yes No						
Hydric Soil Present?		Yes No	Is th	e Sampled Area withi	n a Wetland?	Ye	s No⁄_	
Wetland Hydrology Present?		Yes No	If ye	s, optional Wetland S	ite ID:			
Remarks: (Explain alternative p				-, -,				
		•	•					
Covertype is UPL. Area is uplar	າd, not all three າ	wetland par	ameters are pres	sent.				
,		•						
HYDROLOGY								
IIIDKOLOGI								
Wetland Hydrology Indicators:								
Primary Indicators (minimum		d check all t	that annly)		Secondary I	ndicators (minimum	o of two required)	
Frimary indicators (initialization)	<u>Ji one is require</u>	u, crieck air i	пас арріу)		-		rortwo required)	
Surface Water (A1)		Water-	Stained Leaves (B9)		Soil Cracks (B6)		
High Water Table (A2)		Aquati	c Fauna (B13)		_	e Patterns (B10)		
Saturation (A3)			eposits (B15)		Moss Trim Lines (B16)			
Water Marks (B1)			gen Sulfide Odor	· (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)				on Living Roots (C3)	Crayfish Burrows (C8)			
Drift Deposits (B3)			ice of Reduced Ir	_	Saturation Visible on Aerial Imagery (C9)			
					Stunted	or Stressed Plants (D1)	
Algal Mat or Crust (B4)				in Tilled Soils (C6)	Geomor	phic Position (D2)		
Iron Deposits (B5)			luck Surface (C7)		Shallow	Aquitard (D3)		
Inundation Visible on Aeria		Other	(Explain in Rema	rks)		oographic Relief (D4	1)	
Sparsely Vegetated Concav	e Surface (B8)					ıtral Test (D5)	,	
Field Observations						itidi Test (DS)		
Field Observations:								
Surface Water Present?	Yes 1	No <u>/</u>	Depth (inch	es):				
Water Table Present?	Yes 1	No <u> </u>	Depth (inch	es):	Wetland Hy	drology Present?	Yes No	
Saturation Present?	Yes 1		Donth (inch		-			
	res i	NO _ / _	Depth (inch	es).	-			
(includes capillary fringe)								
Describe Recorded Data (strea	m gauge, monit	oring well, a	erial photos, pre	vious inspections), if	available:			
Describe necorded bata (stree	in gaage, mone	ornig wen, a	criai priocos, pre	vious irispections,, ir	available.			
								
Remarks:								
The criterion for wetland hydro	ology is not met.	. No positive	indication of we	tland hydrology was	observed.			
	5,			,				

FACU FACU FACU FACU FACU FACU FACU FACU	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: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACW species OFAC species UPL species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vege ¹Indicators of hydric soil and wetlan present, unless disturbed or proble	Multiply x1 = _ x2 = _ x3 = _ x4 = _ x5 = _ (A) _ 4 Vegetation (1 (Provide heet) etation¹ (Example)	0 0 488 0 488 (B) supporting
FACU FACU Over FACU NI NI	Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACU species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators: Problematic Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators of hydric Soil and wetland	Multiply x1 = _ x2 = _ x3 = _ x4 = _ x5 = _ (A) _ 4 Vegetation (1 (Provide heet) etation¹ (Example)	(A/B) By: 0 0 488 0 488 (B) supporting
FACU FACU FACU NI NI	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species OFACW species OFACU spec	Multiply x 1 = _ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A) _ 4 Vegetation of (Provide theet) etation (Example 1)	(A/B) By: 0 0 488 0 488 (B) supporting
FACU FACU FACU NI NI	Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACU species OFACU species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators of hydric soil and wetland	Multiply x 1 = _ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A) _ 4 Vegetation (1 (Provide theet) etation¹ (Example)	By:
over FACU FACU NI NI	Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACU species UPL species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Index = 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators:	x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4 Vegetation 1 (Provide heet) etation¹ (Example of the provide heet)	By:
over FACU NI NI	Total % Cover of: OBL species FACW species FAC species OFACU species OCOlumn Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Index = 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sleep Problematic Hydrophytic Vegetation Indicators of hydric soil and wetland	x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4 Vegetation 1 (Provide heet) etation¹ (Example of the provide heet)	0 0 488 0 488 (B) supporting
over FACU NI NI	OBL species FACW species FAC species OFACU species UPL species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Index = 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators:	x 1 = x 2 = x 3 = x 4 = x 5 = (A) 4 Vegetation 1 (Provide heet) etation¹ (Example of the provide heet)	0 0 488 0 488 (B) supporting
over FACU NI NI	FACW species 0 FAC species 0 FACU species 122 UPL species 0 Column Totals 122 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Index = 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetation Indicators of hydric soil and wetland	x 2 = x 3 = x 4 = x 5 = (A) 4 Vegetation (1 (Provide heet) etation (Example 1) (Example 2)	0 0 488 0 488 (B) supporting
over FACU NI NI	FAC species 0 FACU species 122 UPL species 0 Column Totals 122 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic V2- Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4- Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vege¹Indicators of hydric soil and wetland	x 3 =	0 488 0 488 (B)
over FACU NI NI	FACU species UPL species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Solution 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetation Solution	x 4 =	488 0 488 (B)
FACU NI NI	UPL species Column Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic V 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vege ¹Indicators of hydric soil and wetland	x 5 =	0 488 (B)
FACU NI NI	Tolumn Totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetations of hydric soil and wetlants.	(A)	488 (B) supporting
FACU NI NI	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vegetations of hydric soil and wetlants.	4 Vegetation (Provide heet) etation¹ (Example of the heat)	supporting
FACU NI NI	Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl	Vegetation 1 (Provide heet) etation (Example)	supporting kplain)
FACU NI NI	—1- Rapid Test for Hydrophytic \ —2 - Dominance Test is > 50% —3 - Prevalence Index is ≤ 3.0¹ —4 - Morphological Adaptations — data in Remarks or on a separate sl — Problematic Hydrophytic Vege — ¹Indicators of hydric soil and wetlan	o ¹ (Provide heet) etation¹ (Ex and hydrolog	supporting kplain)
FACU NI NI	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl Problematic Hydrophytic Vege ¹Indicators of hydric soil and wetlan	o ¹ (Provide heet) etation¹ (Ex and hydrolog	supporting kplain)
FACU NI NI	3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a separate sl problematic Hydrophytic Vege ¹Indicators of hydric soil and wetlan	heet) etation¹ (Ex nd hydrolog	kplain)
FACU NI NI	4 - Morphological Adaptations data in Remarks or on a separate sl problematic Hydrophytic Vege 1Indicators of hydric soil and wetlan	heet) etation¹ (Ex nd hydrolog	kplain)
NI NI	 data in Remarks or on a separate sl Problematic Hydrophytic Vege Indicators of hydric soil and wetlan 	heet) etation¹ (Ex nd hydrolog	kplain)
NI NI	 Problematic Hydrophytic Vege Indicators of hydric soil and wetlan 	etation¹ (Ex nd hydrolog	•
NI	_ Indicators of hydric soil and wetlan	nd hydrolog	•
			gy must be
FACU	nresent linless disturbed or proble		0)
	-	matic	
	_ Definitions of Vegetation Strata:		
_	Tree – Woody plants 3 in. (7.6 cm) o		diameter at
	_	-	
	<u> </u>		DBH and
			gardlass of
			garuless or
			28 ft in
		iter triair 5.	.2011111
over		\/ N	la (
	Hydrophytic vegetation Present?	res i	NO <u>7</u>
	_		
	_		
_	_		
	_		
over			
	Cover Cover	Sapling/shrub – Woody plants less is greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) size, and woody plants less than 3.2 Woody vines – All woody vines greatheight. Hydrophytic Vegetation Present?	Hydrophytic Vegetation Present? Yes N

	•	to the d	•			indicato	r or confirm the a	bsence of indicators	.)	
Depth	Matrix		Redox							
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		cture	Remarks	
0 - 7	10YR 4/3	100		_			Fibric S	Silt Loam		
7 - 14	10YR 4/4	100		_			Rocky S	Silt Loam		
				_						
				_						
				_			_	-		
				_	-					
				_	-					
	-			_						
				_						
				_						
				_						
				_						
¹Type: C =	Concentration, D =	Depletio	on, RM = Reduced	Matı	ix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore Li	ning, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Prob	olematic Hydric Soils³:	
Histoso			Polyvalue Bel	ow S	urface (S	8) (LRR	R, MLRA 149B)		0) (LRR K, L, MLRA 149B)	
	pipedon (A2)		Thin Dark Sur							
	listic (A3)		Loamy Mucky						edox (A16) (LRR K, L, R)	
	gen Sulfide (A4)		Loamy Gleyed			. ,	,		eat or Peat (S3) (LRR K, L, R)	
	ed Layers (A5)		Depleted Mat					Dark Surface (
Deplete	ed Below Dark Surfa	ace (A11						•	w Surface (S8) (LRR K, L)	
Thick D	ark Surface (A12)		Depleted Dar	k Sui	face (F7))		Thin Dark Surface (S9) (LRR K, L)		
Sandy	Mucky Mineral (S1)		Redox Depres	ssior	ıs (F8)				se Masses (F12) (LRR K, L, R)	
Sandy	Gleyed Matrix (S4)								dplain Soils (F19) (MLRA 149B)	
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	ed Matrix (S6)							Red Parent Ma		
		ALDA 14	OD)					Very Shallow Dark Surface (TF12)		
Dark 3	urface (S7) (LRR R, N	ILKA 14	5 6)					Other (Explain	in Remarks)	
3Indicators	of hydrophytic veg	etation	and wetland hydro	ology	/ must b	e preser	ıt, unless disturbe	ed or problematic.		
Restrictive	Layer (if observed):									
	Type:		None			Hydric	Soil Present?	١	∕es No <u>_</u> _	
	Depth (inches):					-				
Remarks:						Į			-	
	a indication of hydri	ic soils v	vas observed. The	crite	rion for	hydric s	nil is not met Pef	usal due to coarse fr	agments	
ινο μοσιτίνο	e indication of rigur	ic solis v	vas observed. Tile	CITLE	11011101	riyuric si	oli is flot fflet. Kei	usai due to coarse ii	agments.	



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Ame	25,		Sampling Date: 202	21-Sept-22		
Applicant/Owner: SunEast			State: New	York	Sampling Point: W-EE	S-27_PEM-1		
Investigator(s): Ethan Snyder,	Brian Corrigan, A	bi Light	Section, Township, F	Range: NA	<u> </u>			
Landform (hillslope, terrace, etc.)): Depression	n	Local relief (concave, conve	ex, none):	Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA):L	RR L	_	Lat: 42.8369219	Long:	-74.5039335	Datum: WGS84		
Soil Map Unit Name: Ilion silt	loam, 3 to 8 perce	ent slopes			NWI classification	n: None		
Are climatic/hydrologic condition	s on the site typi	cal for this time of ye	ar? Yes No _	(If no,	, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology	significantly di	sturbed? Are "Norma	l Circumsta	ances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology	naturally prob	ematic? (If needed, e	explain any	y answers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map	showing sampli	ng point locations, trans	sects, im	portant features,	etc.		
Hydrophytic Vegetation Present	? Yes	No						
Hydric Soil Present?		No	Is the Sampled Area within	n a Wetland	d? Yes	No		
			i i					
Wetland Hydrology Present?	·	No	If yes, optional Wetland Sit	te iD:	VV-E	ES-27		
Remarks: (Explain alternative pr								
Covertype is PEM. Area is wetlar	nd, all three wetla	and parameters are p	resent.					
HYDROLOGY								
Madand Hudunian Indiantous								
Wetland Hydrology Indicators:		-1111-4141-3	,	C d		- 6 t N		
<u>Primary Indicators (minimum of</u>	one is required;	check all that apply)	<u> </u>	-	Indicators (minimum	of two required)		
Surface Water (A1)	_	✓ Water-Stained Lea	aves (B9)		e Soil Cracks (B6)			
High Water Table (A2)	-	Aquatic Fauna (B1	3)	Moss Trim Lines (B10)				
Saturation (A3)	-	Marl Deposits (B1	5)	Indust ITITI Lines (BT0) Dry-Season Water Table (C2)				
Water Marks (B1)	-	Hydrogen Sulfide		Cravfish Burrows (C8)				
Sediment Deposits (B2)	-	·	neres on Living Roots (C3)	C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	-	Presence of Redu			d or Stressed Plants ([0 ,		
Algal Mat or Crust (B4)	-		ction in Tilled Soils (C6)		orphic Position (D2)	,		
Iron Deposits (B5)		Thin Muck Surface			v Aguitard (D3)			
Inundation Visible on Aerial		Other (Explain in l	Remarks)	✓ Microtopographic Relief (D4)				
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes No	Depth	(inches):					
Water Table Present?	Yes No	Depth	(inches):	Wetland H	lydrology Present?	Yes No		
Saturation Present?	Yes No		(inches):					
(includes capillary fringe)			·					
Describe Recorded Data (stream	o gauge monitori	ing well perial photo	c provious inspections) if a	vailable				
Describe Recorded Data (stream	ii gauge, monitori	ing well, aeriai prioto	s, previous irispections), ir av	valiable.				
Remarks:								
The criterion for wetland hydrol	ogy is met. A pos	itive indication of we	tland hydrology was observe	ed (primar	ry and secondary indic	ators were present).		
İ								

True Charles (District 20 ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species That	5	(A)		
1. Ulmus americana	10	Yes	FACW	Are OBL, FACW, or FAC:		(^)		
2.				Total Number of Dominant Species	5	(B)		
3.				Across All Strata:				
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)		
5				Prevalence Index worksheet:				
6				Total % Cover of:	Multiply E	<u>By:</u>		
7				OBL species 10	x 1 =	10		
	10	= Total Cov	er	FACW species 125	x 2 =	250		
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0		
1. <u>Cornus amomum</u>	5	Yes	FACW	FACU species 0	x 4 =	0		
2. <i>Salix bebbiana</i>	5	Yes	FACW	UPL species 0	x 5 =	0		
3				Column Totals 135	(A)	260 (B)		
4				Prevalence Index = B/A =		200 (2)		
5				Hydrophytic Vegetation Indicators:				
6								
7				✓ 1- Rapid Test for Hydrophytic ✓ 2 - Dominance Test is >50%	vegetation			
	10	= Total Cov	er	\checkmark 3 - Prevalence Index is \le 3.01				
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptation	-1 (Drovido c	upporting		
1. Symphyotrichum novi-belgii	40	Yes	FACW	data in Remarks or on a separate s	-	upporting		
2. Solidago gigantea	35	Yes	FACW	Problematic Hydrophytic Veg	=	olain)		
3. <i>Phalaris arundinacea</i>	20	No	FACW	¹Indicators of hydric soil and wetla				
4. Symphyotrichum novae-angliae	10	No	FACW	present, unless disturbed or proble	, .	,		
5. <i>Glyceria striata</i>	10	No	OBL	Definitions of Vegetation Strata:				
6.	· ·	·		Tree – Woody plants 3 in. (7.6 cm)	or more in d	iameter at		
7.				breast height (DBH), regardless of	neight.			
8.				Sapling/shrub – Woody plants less	than 3 in. D	BH and		
9.				greater than or equal to 3.28 ft (1 r	n) tall.			
10.				Herb – All herbaceous (non-woody) plants, reg	ardless of		
11.	· ——			size, and woody plants less than 3.	28 ft tall.			
12.				Woody vines – All woody vines grea	ater than 3.2	28 ft in		
· ·	115	= Total Cov	er	height.				
Woody Vine Stratum (Plot size:30 ft)	- 113	·	C.	Hydrophytic Vegetation Present?	Yes No	·		
1								
2								
3								
4.								
	0	= Total Cov	er					

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Descr	iption: (Describe t	o the d	lepth needed to o	locun	nent the i	indicator	or confirm the a	absence of indicato	ors.)		
Depth _	Matrix		Redox	Feat	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture		Remarks		
0 - 10.5	10YR 4/2	95	5YR 4/4	5	С	M	Silty Clay Loam				
10.5 - 18	10YR 5/2	90	5YR 5/6	10	C	M	CI	lay			
								_			
				_							
			-	_							
		- —									
¹Type: C = Co	ncentration, D = [Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² l	Location: PL = Pore	Lining, M = Matrix.		
Hydric Soil Ir	ndicators:							Indicators for P	roblematic Hydric Soils³:		
Histosol ((A1)		Polyvalue Be					2 cm Muck ((A10) (LRR K, L, MLRA 149B)		
Histic Epi	pedon (A2)		Thin Dark Su				-		e Redox (A16) (LRR K, L, R)		
Black His			Loamy Muck	-		(LRR K, L	-)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Gleye					Dark Surface	e (S7) (LRR K, L)		
	Layers (A5)	(44	_ <u>✓</u> Depleted Ma					Polyvalue Be	elow Surface (S8) (LRR K, L)		
	Below Dark Surfa	ce (A I						Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A12) ucky Mineral (S1)		Depleted Da Redox Depre			,		Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (S4)		Redox Depire	233101	15 (1-0)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Re								Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
-								Red Parent Material (F21)			
	Matrix (S6)	I DA 14	IOD)					Very Shallow Dark Surface (TF12)			
Dark Sun	face (S7) (LRR R, M	LKA 14	19B)					Other (Expla	ain in Remarks)		
³Indicators o	f hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturb	ed or problematic.			
Restrictive La	ayer (if observed):										
	Type:		None			Hydric	Soil Present?		Yes/_ No		
	Depth (inches):										
Remarks:											
	dication of hydric s	soil wa	s observed. The c	riterio	on for hy	dric soil	is met.				
· .	,				,						



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Ame	es, Montgomery		Sampling Date: 2021-Sept-22		
Applicant/Owner: SunEast		_	State: Nev	w York	Sampling Point: W-E	ES-27_UPL-1	
Investigator(s): Ethan Snyder,	Brian Corrigan, Abi	Light	Section, Township,	Range: N	A		
Landform (hillslope, terrace, etc.)): Foot slope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10	
Subregion (LRR or MLRA):	.RR L		Lat: 42.8369126	Long:	-74.5039709	Datum: WGS84	
Soil Map Unit Name: Ilion silt	oam, 3 to 8 percent	t slopes			NWI classificatio	n: None	
Are climatic/hydrologic condition	s on the site typical	l for this time of ye	ar? Yes <u>✓</u> No	(If no	o, explain in Remarks.)	1	
Are Vegetation <u></u> ✓, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumst	tances" present?	Yes No	
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain an	ny answers in Remarks)	
SUMMARY OF FINDINGS – A	Attach site map s	showing sampli	ng point locations, trar	nsects, im	nportant features,	etc.	
Hydrophytic Vegetation Present	? Yes _	No / _					
Hydric Soil Present?	Yes _	No _ _ _	Is the Sampled Area within	n a Wetlan	d? Yes	s No⁄_	
Wetland Hydrology Present?	Yes _	No _ _ _	If yes, optional Wetland Si	ite ID:			
Remarks: (Explain alternative pr			_ ·				
		·			-	·	
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required: ch	eck all that apply)		Secondan	y Indicators (minimum	of two required)	
1 marcator 3 (minimarri or	one is required, en	eck all triat apply)			ce Soil Cracks (B6)	ror avo requireas	
Surface Water (A1)		Water-Stained Lea		Drainage Patterns (B10)			
High Water Table (A2)		Aquatic Fauna (B1			Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B1		Dry-Season Water Table (C2)			
Water Marks (B1)		Hydrogen Sulfide		Crayfis	sh Burrows (C8)		
Sediment Deposits (B2) Drift Deposits (B3)		Presence of Redu	neres on Living Roots (C3)	Satura	ation Visible on Aerial I	magery (C9)	
Algal Mat or Crust (B4)		='	ction in Tilled Soils (C6)	Stunte	ed or Stressed Plants (l	D1)	
Iron Deposits (B5)		Thin Muck Surface			orphic Position (D2)		
Inundation Visible on Aerial I		Other (Explain in I			w Aquitard (D3)		
Sparsely Vegetated Concave		Other (Explain in i	vernarks)	Microt	topographic Relief (D4	.)	
				FAC-N	leutral Test (D5)		
Field Observations: Surface Water Present?	Yes No	✓ Depth	(inches):				
Water Table Present?	Yes No	·	(inches):	- Wetland I	Hydrology Present?	Yes No _ ✓	
Saturation Present?	Yes No,		(inches):	-	.,		
(includes capillary fringe)	.0510 _	<u> </u>		-			
			: : : : : - :				
Describe Recorded Data (stream	i gauge, monitoring	g weii, aeriai pnoto:	s, previous inspections), it a	avaliable:			
Remarks:	omi io matematiki	ooditive in direti-	of wotland budget ····	oboc			
The criterion for wetland hydrol	ogy is not met. No p	positive indication	of wetland hydrology was o	observed.			

				1		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species T Are OBL, FACW, or FAC:	hat 0	(A)
1				Total Number of Dominant Spe	ries	
2.				Across All Strata:	1	(B)
3.				Percent of Dominant Species Tl	nat	
4				Are OBL, FACW, or FAC:	0	(A/B)
5.				Prevalence Index worksheet:		
6				Total % Cover of:	Multiply	<u> By:</u>
7				OBL species 0	x 1 =	0
	0	= Total Cove	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 125	x 4 =	500
2				UPL species 0	x 5 =	0
3				Column Totals 125	(A)	500 (B)
4				Prevalence Index = B		
5				Hydrophytic Vegetation Indicate		
6				1- Rapid Test for Hydroph		n
7				2 - Dominance Test is > 50	_	11
	0	= Total Cove	er	3 - Prevalence Index is ≤ 3		
Herb Stratum (Plot size:5 ft)				4 - Morphological Adaptat		supporting
1. <i>Poa pratensis</i>	80	Yes	FACU	data in Remarks or on a separa		: supporting
2. Schedonorus pratensis	20	No	FACU	Problematic Hydrophytic	-	vnlain)
3. Trifolium pratense	10	No	FACU	¹Indicators of hydric soil and we	_	•
4. Lotus tenuis	10	No	FACU	present, unless disturbed or pr	-	ogy must be
5. Oxalis stricta	5	No	FACU	Definitions of Vegetation Strata		,
6.				Tree – Woody plants 3 in. (7.6 c		diameter at
7.				breast height (DBH), regardless		didiffecer de
8.				Sapling/shrub - Woody plants l	_	DBH and
9.				greater than or equal to 3.28 ft		
10.				Herb – All herbaceous (non-woo		egardless of
11				size, and woody plants less that	1 3.28 ft tall.	
				Woody vines – All woody vines	greater than 3	3.28 ft in
12	125	= Total Cove	or .	height.		
Woody Vine Stratum (Plot size:30 ft)	123	_ Total Cove	-1	Hydrophytic Vegetation Preser	t? Yes	No
1.						
2						
2.						
3.						
4		_ Tabel C:				
	0	= Total Cove	er			
Remarks: (Include photo numbers here or on a separa	te sheet.)					
No positive indication of hydrophytic vegetation was o	bserved (≥	50% of dom	inant specie	es indexed as FAC– or drier).		

	•	to the de	•			ndicato	or confirm the al	osence of indicators.)	
Depth _	Matrix		Redox						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Text		Remarks
0 - 9.5	10YR 4/3	100		_			Silty Cla		
9.5 - 15	10YR 3/3	100		_			Silty	Clay	
				_					
				_					
				_					
-				_					
				_					
-									
-									
-									
-				_					
-				_					
¹Tvpe: C = C	oncentration. D =	Depletio	n. RM = Reduced	Mat	rix. MS =	Masked	Sand Grains. 21 (ocation: PL = Pore Lining	M = Matrix
Hydric Soil I		- ср.сс.о	.,,		,		24.14 3.4.15.	Indicators for Problem	
Histosol			Polyvalue Bel	ow S	Jurface (S	8) (I RR I	R, MLRA 149B)		-
	oipedon (A2)		Tolyvalae Bel Thin Dark Sul					2 cm Muck (A10) (L I	
Black His			Loamy Mucky					Coast Prairie Redox	
	n Sulfide (A4)		Loamy Gleye			(211111)	-,	5 cm Mucky Peat or	
	d Layers (A5)		Depleted Ma					Dark Surface (S7) (L	
	d Below Dark Surfa							Polyvalue Below Su	
Thick Da	irk Surface (A12)		Depleted Dar	k Su	rface (F7)			Thin Dark Surface (
Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ns (F8)			•	asses (F12) (LRR K, L, R)
Sandy G	leyed Matrix (S4)							·	in Soils (F19) (MLRA 149B)
Sandy R	edox (S5)							•	(MLRA 144A, 145, 149B)
Stripped	l Matrix (S6)							Red Parent Materia Very Shallow Dark S	
Dark Su	rface (S7) (LRR R, N	ILRA 149	B)						
								Other (Explain in Re	emarks)
-	of hydrophytic veg		ınd wetland hydr	olog	y must be	preser	t, unless disturbe	d or problematic.	
Restrictive L	.ayer (if observed):								
	Туре:		None			Hydric	Soil Present?	Yes	No/_
	Depth (inches):	;							
Remarks:									
No positive	indication of hydri	c soils w	as observed. The	crite	erion for	hydric s	oil is met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Cana	ajoharie, Montgomery Cou	inty	Sampling Date: 202	21-Sept-22	
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-EE	S-28_PEM-1	
Investigator(s): Ethan Snyder,	Brian Corrigan, Ab	i Light	Section, Township,	Range: N	Α		
Landform (hillslope, terrace, etc.)): Depression		Local relief (concave, conv	/ex, none):	Concave	Slope (%): 1 to 10	
Subregion (LRR or MLRA): L	.RR L	.	Lat: 42.8328877	Long:	-74.5014816	Datum: WGS84	
Soil Map Unit Name: Lansing	silt loam, 8 to 15 pe	ercent slopes			NWI classification	n: None	
Are climatic/hydrologic condition	s on the site typica	al for this time of ye	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)		
Are Vegetation, Soil,	or Hydrology ₋	significantly dis	sturbed? Are "Norm	al Circumst	tances" present?	Yes 🟒 No	
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain an	y answers in Remarks.)	
SUMMARY OF FINDINGS – A	Attach site map	showing samplir	ng point locations, trar	nsects, im	nportant features, e	etc.	
Hydrophytic Vegetation Present	? Yes	✓_ No					
Hydric Soil Present?		No	Is the Sampled Area withi	in a Wetlan	nd? Yes	No	
		✓ No	If yes, optional Wetland Si			ES-28	
Wetland Hydrology Present?				ite ib.	VV-EI	E3-20	
Remarks: (Explain alternative pr							
Covertype is PEM. Area is wetlar	id, all three wetlan	d parameters are p	resent.				
HYDROLOGY							
IIIDROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; cl	neck all that apply)			<u>y Indicators (minimum</u>	of two required)	
Surface Water (A1)	_,	<u>∠</u> Water-Stained Lea	aves (B9)		e Soil Cracks (B6)		
High Water Table (A2)		_ _ Aquatic Fauna (B1		✓ Drainage Patterns (B10)			
✓ Saturation (A3)	_	_ Marl Deposits (B1	5)	Moss Trim Lines (B16)			
Water Marks (B1)	_	_ Hydrogen Sulfide	Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2)			neres on Living Roots (C3)	-	ation Visible on Aerial Ir	magery (C9)	
Drift Deposits (B3)	_	_ Presence of Reduc			ed or Stressed Plants (D		
Algal Mat or Crust (B4)	_	_	tion in Tilled Soils (C6)		orphic Position (D2)	,	
Iron Deposits (B5)	- (57)	_ Thin Muck Surface			w Aquitard (D3)		
Inundation Visible on Aerial		_ Other (Explain in F	Remarks)	Microt	copographic Relief (D4)		
Sparsely Vegetated Concave	Surface (B8)			FAC-N	eutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No	✓ Depth	(inches):	_			
Water Table Present?	Yes No _	<u>✓</u> Depth	(inches):	Wetland F	Hydrology Present?	Yes No	
Saturation Present?	Yes _ ∠ _ No _	Depth	(inches): 0				
(includes capillary fringe)							
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photos	s, previous inspections), if a	available:			
	8 8	0	., ,				
Barra adlar							
Remarks:	:-						
The criterion for wetland hydrol	ogy is met. A posit	ive indication of wet	tland hydrology was obser	ved (prima	ry and secondary indic	cators were present).	

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test workship			
1. Tsuga canadensis	15	Yes	FACU	Are OBL, FACW, or FAC:		4	(A)
Fraxinus pennsylvanica	10	Yes	FACW	Total Number of Domina	ant Species	6	(B)
3. Carya cordiformis	5	No	FAC	Across All Strata:			
4.				Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: 66.7		66.7	(A/B)
5							
6.				Total % Cover o	<u>of:</u>	<u>Multiply</u>	<u>By:</u>
7				OBL species	0	x 1 =	0
	30	= Total Cov	er	FACW species	35	x 2 =	70
Sapling/Shrub Stratum (Plot size:15 ft)	_	.,	E4 6144	FAC species	25	x 3 =	75
1. Ulmus americana	5	Yes	FACW	FACU species	27	x 4 =	108
2				UPL species	0	x 5 =	0
3				Column Totals	87	(A)	253 (B)
4				Prevalence Inc	dex = B/A =	2.9	
5				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for Hy		/egetation	1
7				2 - Dominance Test			
	5	= Total Cov	er	3 - Prevalence Index is $\leq 3.0^{\circ}$			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological A		¹ (Provide	supporting
1. Athyrium angustum	20	Yes	FAC	daţa in Remarks or on a			
2. Impatiens capensis	10	Yes	FACW	Problematic Hydro			(plain)
3. Oxalis corniculata	10	Yes	FACU	¹Indicators of hydric soil	and wetlan	d hydrolo	gy must be
4. Leersia virginica	5	No	FACW	present, unless disturbe	d or proble	matic	
5. <i>Pilea pumila</i>	5	No	FACW	Definitions of Vegetation	n Strata:		
6. <i>Parthenocissus quinquefolia</i>	2	No	FACU	Tree – Woody plants 3 in	ı. (7.6 cm) oı	r more in	diameter at
7				breast height (DBH), reg	ardless of h	eight.	
8				Sapling/shrub - Woody	olants less t	han 3 in. [DBH and
9.				greater than or equal to	3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (r	-		gardless of
11.				size, and woody plants le			
12.				Woody vines – All woody	vines grea	ter than 3.	.28 ft in
-	52	= Total Cov	er	height.			
Woody Vine Stratum (Plot size:30 ft) 1		-		Hydrophytic Vegetation	Present? \	∕es <u> </u>	10
2.							
3.							
4.							
	0	= Total Cov	er				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Morphological Adaptations). raised buttresses, exposed roots on trees .

Depth Matrix Redox Features (inches) Color (moist) % Type¹ Loc² Texture Re 0 - 2.5 7.5YR 2.5/2 100 Org matter Muck 2.5 - 7 10Y 5/1 90 7.5YR 4/6 10 C M Sandy Clay	emarks
0 - 2.5 7.5YR 2.5/2 100 Org matter Muck	emarks
25-7 10V 5/1 90 7 5VR 4/6 10 C M Sandy Clay	
2.5 / 1015/1 50 /.5/1(4/0 10 C WI Sality Clay	
7 - 18 10YR 5/2 85 5YR 4/6 15 C M Rocky Sandy Clay	
	_
<u> </u>	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix	X
Hydric Soil Indicators: Indicators for Problematic Hydric	Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, ML	.RA 149B)
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) (
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K. L)	. , , ,
Stratified Layers (A5)	(LRR K, L)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (I RR K.	
Inick Dark Surface (A12)	
Sandy Mucky Mineral (ST) — Redox Depressions (F8) Piedmont Floodplain Soils (F1)	
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144.	A, 145, 149B)
Sandy Redox (S5) Red Parent Material (F21)	, , ,
Stripped Matrix (S6) Very Shallow Dark Surface (TF	:12)
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: None Hydric Soil Present? Yes ✓ No	
Depth (inches):	_
Remarks:	
A positive indication of hydric soil was observed. The criterion for hydric soil is met.	

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	ject	City/County: Can	ajoharie, Montgomery Cou	inty	Sampling Date: 20	21-Sept-22
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-E	ES-28_UPL-1
Investigator(s): Ethan Snyder, I	Brian Corrigan, Abi	Light	Section, Township,	Range: NA	A	
Landform (hillslope, terrace, etc.)	: Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	RR L		Lat: 42.8329109	Long:_	-74.5015013	Datum: WGS84
Soil Map Unit Name: Lansing s	silt loam, 8 to 15 pe	ercent slopes			NWI classification	on: None
Are climatic/hydrologic condition	s on the site typica	al for this time of ye	ar? Yes <u>✓</u> No	(If no	o, explain in Remarks.))
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any	y answers in Remarks	5.)
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pre Covertype is UPL. Area is upland	? Yes _ Yes _ Yes _ ocedures here or in	No ✓ No ✓ No ✓ n a separate report	Is the Sampled Area within If yes, optional Wetland Si	n a Wetland		etc. s No <u>/</u>
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	· - -	_ Water-Stained Lea _ Aquatic Fauna (B1 _ Marl Deposits (B1 _ Hydrogen Sulfide	3) 5) Odor (C1)	Surface Draina Moss 1 Dry-Se	y Indicators (minimun e Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2 sh Burrows (C8)	•
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	_	_ Presence of Redu	neres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6)	Stunte	ation Visible on Aerial l ed or Stressed Plants (-
Iron Deposits (B5)	_	_ Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial I	magery (B7)	_ _ Other (Explain in I			w Aquitard (D3)	
Sparsely Vegetated Concave	Surface (B8)				copographic Relief (D4	+)
Field Observations:				FAC-ING	eutral Test (D5)	
	Vos No	/ Donth	(in chas):			
Surface Water Present?	Yes No _	·	(inches):	-[
Water Table Present?	Yes No _	<u>✓</u> Depth	(inches):	Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes No _	<u>✓</u> Depth	(inches):	_		
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring	g well, aerial photo	s, previous inspections), if a	available:		
Remarks:						
The criterion for wetland hydrol	ogy is not met. No	positive indication	of wetland hydrology was o	observed.		

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	0	(A)
1. Tsuga canadensis	60	Yes	FACU	Are OBL, FACW, or FAC:		(A)
Fagus grandifolia	35	Yes	FACU	Total Number of Dominant Species	4	(B)
3.				Across All Strata:		(6)
4.				Percent of Dominant Species That	0	(A/B)
5.				Are OBL, FACW, or FAC:		
6.				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply	By:
·	95	= Total Cov	·····	OBL species 0	x 1 =	0
Conline/Charle Charters (Diet siese 15 ft)	93	_ 10tal C0v	ei	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)	45	V	FACIL	FAC species 0	x 3 =	0
Fagus grandifolia	15	Yes	FACU	FACU species 115	x 4 =	460
2.				UPL species 0	x 5 =	0
3				Column Totals 115	(A)	460 (B)
4				Prevalence Index = B/A =	4	. , ,
5				Hydrophytic Vegetation Indicators:		
6.				• • •	Vogotation	
7				1- Rapid Test for Hydrophytic	vegetation	1
	15	= Total Cov	er	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: 5 ft)		_		3 - Prevalence Index is ≤ 3.01	1 (D	
1. Dryopteris marginalis	5	Yes	FACU	4 - Morphological Adaptations		supporting
2.				data in Remarks or on a separate s		
3.				Problematic Hydrophytic Vege		
4.				¹Indicators of hydric soil and wetlar	-	gy must be
5.				present, unless disturbed or proble	matic	
				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o		diameter at
7				breast height (DBH), regardless of h	_	
8.				Sapling/shrub – Woody plants less t		DBH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody)		gardless of
11				size, and woody plants less than 3.2		20.6
12				Woody vines – All woody vines grea	iter than 3.	.28 ft in
	5	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)		_		Hydrophytic Vegetation Present?	Yes N	No <u> </u>
1.						
2.						
3.				•		
4.						
	0	= Total Cov	or	•		
		- Total Cov	Ci			
Remarks: (Include photo numbers here or on a separat	e sheet.)					
No positive indication of hydrophytic vegetation was ob	served (≥	50% of don	ninant specie	es indexed as FAC– or drier).		

		to the de				ndicato	r or confirm the	absence of indicators.	.)
Depth	Matrix		Redox	Fea	tures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Te	exture	Remarks
0 - 4	10YR 4/3	100					Sil	t Loam	
4 - 9.5	7.5YR 5/6	100					Silty 0	Clay Loam	
9.5 - 16	7.5YR 5/3	100						Clay Loam	
				_					
				_			-		
				_					
				_					
				_					
	-			_					
			_					_	
				_					
				_					
1Typo: C = 1	Concentration D =	Doplotio	p DM = Dodusod		riv MC -	Mackad	Cand Crains 2	l acation, DL = Dara Liv	ning M = Matrix
	Concentration, D =	Depletio	n, RIVI = Reduced	Mat	rix, IVIS =	Masked	Sand Grains. 2	Location: PL = Pore Li	
1	Indicators:							Indicators for Prob	olematic Hydric Soils³:
Histoso			Polyvalue Bel					2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Sur					Coast Prairie R	edox (A16) (LRR K, L, R)
	istic (A3)		Loamy Mucky			(LRR K, I	_)		at or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleyed					Dark Surface (S	
	ed Layers (A5)		Depleted Mat						w Surface (S8) (LRR K, L)
	ed Below Dark Surf							Thin Dark Surfa	
	ark Surface (A12)		Depleted Dar						se Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	ssior	ns (F8)			•	dplain Soils (F19) (MLRA 149B)
Sandy 0	Gleyed Matrix (S4)								ГА6) (MLRA 144A, 145, 149B)
Sandy I	Redox (S5)							Red Parent Ma	
Strippe	d Matrix (S6)								
Dark Su	urface (S7) (LRR R, N	/ILRA 149	9B)					Very Shallow D	
			,					Other (Explain	in Remarks)
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must be	presen	it, unless disturb	ed or problematic.	
Restrictive	Layer (if observed):	:							
	Type:		None			Hydric	Soil Present?		Yes No/
	Depth (inches):								
Remarks:	<u>, , , , , , , , , , , , , , , , , , , </u>								
	indication of hydr	ic soils w	es observed The	crita	erion for	hvdric sa	oil is not met		
No positive	. indication of riyur	ic 30113 W	as observed. The	CITC		riyuric so	on is not met.		
				_					



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject <u>City/County:</u> Can	ajoharie, Montgomery County	Sampling Date: 2021-Sept-22		
Applicant/Owner: SunEast		State: New York	Sampling Point: W-EES-29_PEM-1		
Investigator(s): Ethan Snyder,	Abi Light	Section, Township, Range:	NA		
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, convex, none	e): Concave Slope (%): 1 to 10		
Subregion (LRR or MLRA):	RR L	Lat: 42.837129 Lon	g:74.498555		
Soil Map Unit Name: Darien si	ilt loam, 3 to 8 percent slopes		NWI classification: None		
Are climatic/hydrologic condition	ns on the site typical for this time of ye	ear? Yes No (If	no, explain in Remarks.)		
Are Vegetation, Soil <u></u> ✓,	or Hydrology 🟒 significantly di				
Are Vegetation, Soil,	or Hydrology naturally prob	lematic? (If needed, explain	any answers in Remarks.)		
SUMMARY OF FINDINGS – A	Attach site map showing sampli	ng point locations, transects,	important features, etc.		
Hydrophytic Vegetation Present	? Yes _ ✓ No	1	<u> </u>		
Hydric Soil Present?	Yes <u>✓</u> No	Is the Sampled Area within a Wetla	and? Vos. / No		
•		·			
Wetland Hydrology Present?	Yes _✓_ No rocedures here or in a separate report	If yes, optional Wetland Site ID:	W-EES-29		
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	Presence of Redu Recent Iron Redu Thin Muck Surfac Imagery (B7) Other (Explain in	aves (B9) Surf 13) Mos 15) Dry- Odor (C1) Cray heres on Living Roots (C3) Satu ced Iron (C4) Stur ction in Tilled Soils (C6) Geo e (C7) Shal Micr	ary Indicators (minimum of two required) Face Soil Cracks (B6) Finage Patterns (B10) Fiss Trim Lines (B16) Fiseason Water Table (C2) Fish Burrows (C8) First Durrows (C8) First Durrows (C9) Fination Visible on Aerial Imagery (C9) Finated or Stressed Plants (D1) Finorphic Position (D2) Fillow Aquitard (D3) Frotopographic Relief (D4) Final First (D5)		
Field Observations:					
Surface Water Present?	Yes No Depth	(inches):			
Water Table Present?	Yes No Depth	(inches): Wetland	d Hydrology Present? Yes No		
Saturation Present?	Yes No Depth	(inches):			
(includes capillary fringe)					
	n gauge, monitoring well, aerial photo	s previous inspections) if available	··		
Remarks: The criterion for wetland hydrol	ogy is met. A positive indication of we	etland hydrology was observed (prin	mary and secondary indicators were present).		

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test workshee Number of Dominant Spec Are OBL, FACW, or FAC:		2	(A)
1 2.				Total Number of Dominan	t Species	2	(D)
3.				Across All Strata:	·		(B)
4.				Percent of Dominant Spec Are OBL, FACW, or FAC:	ies That	100	(A/B)
5				Prevalence Index workshe	et:		
6				Total % Cover of:		Multiply	Bv:
7				- OBL species	40	x 1 =	40
	0	= Total Cove	er	FACW species	70	x 2 =	140
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	40	x 3 =	120
1				FACU species	0	x 4 =	0
2				- UPL species	0	x 5 =	0
3				- Column Totals	150	(A)	300 (B)
4				Prevalence Inde	x = B/A =	2	
5				Hydrophytic Vegetation In	dicators:	,	·
6				-		/egetatio	า
7				✓ 2 - Dominance Test is		egetatio	•
	0	= Total Cove	er	✓ 3 - Prevalence Index			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Ad		(Provide	supporting
1. <i>Phalaris arundinacea</i>	70	Yes	FACW	- data in Remarks or on a se	•	•	
2. <i>Typha latifolia</i>	40	Yes	OBL	Problematic Hydroph	hytic Vege	tation¹ (E	xplain)
3. <i>Setaria pumila</i>	25	No	FAC	Indicators of hydric soil a	nd wetlan	d hydrolo	gy must be
4. <i>Panicum capillare</i>	15	No	FAC	present, unless disturbed	or probler	matic	
5				Definitions of Vegetation S	Strata:		
6				Tree – Woody plants 3 in. ((7.6 cm) or	more in	diameter a
7				breast height (DBH), regar	dless of h	eight.	
8				Sapling/shrub – Woody pla			DBH and
9				greater than or equal to 3.			
10				Herb – All herbaceous (no	-	•	gardless of
11				size, and woody plants les			20.6
12				Woody vines – All woody v	ines great	ter than 3	3.28 ft in
	150	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation P	resent? \	∕es <u> </u>	No
1							
2							
3.				_			
4.				-			
		= Total Cove	-r	-			

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

Profile Desc	cription: (Describe	to the	depth needed to	docun	nent the i	ndicato	or confirm the a	bsence of indicators.)	
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	7	Texture	Remarks
0 - 11	10YR 3/1	95	2.5YR 4/4	5	С	M	Si	ilt Loam	
11 - 15	10YR 4/1	90	5YR 5/6	10	C	M	Rocky S	ilty Clay Loam	
				. —					
							-		
									-
									-
							-		
		- —							
	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rıx, MS =	Masked	Sand Grains. ² L	Location: PL = Pore Linin	
Hydric Soil								Indicators for Probler	matic Hydric Soils³:
Histosol			Polyvalue B					2 cm Muck (A10) ((LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Si					Coast Prairie Red	ox (A16) (LRR K, L, R)
Black Hi			Loamy Mucl	-		(LRR K, I	-)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted M					Dark Surface (S7)	(LRR K, L)
I	d Below Dark Surfa	ace (A1	•					•	Surface (S8) (LRR K, L)
	ark Surface (A12)	, cc (/ ti	Depleted Da)		Thin Dark Surface	
	fucky Mineral (S1)		Redox Depr			•			Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)				- (-)			·	lain Soils (F19) (MLRA 149B)
-	ledox (S5)								5) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Mater	
	rface (S7) (LRR R, M	II RA 1	49R)					Very Shallow Dark	
			.52,					Other (Explain in	Remarks)
-	of hydrophytic veg		and wetland hyd	rolog	y must b	e presen	t, unless disturbe	ed or problematic.	
Restrictive I	_ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive in	ndication of hydric	soil wa	as observed. The o	riterio	on for hy	dric soil	is met. Refusal dı	ue to coarse fragments.	

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/Cour	nty:_ Canajoharie, Montgomery Coւ	inty Sampling Date:	2021-Sept-22			
Applicant/Owner: SunEast			State: Ne	State: New York Sampling Point: W-EES-29_UPL-1				
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: NA				
Landform (hillslope, terrace, etc.)): Hillslop	ie	Local relief (concave, conv	ex, none): Undulating	Slope (%): 1 to 10			
Subregion (LRR or MLRA):	.RR L		Lat: 42.836961	Long: -74.498678	Datum: WGS84			
Soil Map Unit Name: Darien si	ilt loam, 3 to 8	percent slopes		NWI classific	ation: None			
Are climatic/hydrologic condition	is on the site t	ypical for this tir	me of year? Yes <u>✓</u> No	(If no, explain in Remar	ks.)			
Are Vegetation, Soil,	or Hydrol	ogy 🟒 signific	cantly disturbed? Are "Norm	al Circumstances" present?	Yes No			
Are Vegetation, Soil,	or Hydrol	ogy natura	illy problematic? (If needed,	explain any answers in Rema	arks.)			
SUMMARY OF FINDINGS – A	Attach site m	nap showing	sampling point locations, tra	nsects, important feature	es, etc.			
Hydrophytic Vegetation Present	7	Yes No	,					
			i	in a Matland?	Voc. No. /			
Hydric Soil Present?		Yes No	;		Yes No/_			
Wetland Hydrology Present?		Yes No	If yes, optional Wetland	Site ID:				
Remarks: (Explain alternative pro	ocedures here	e or in a separat	e report)					
Covertype is LIPI Area is upland	not all three	wotland naram	otors are present Circumstances	era not normal due to agricult	ural activities			
Covertype is OPL. Area is upland	i, not all three	wetiand param	eters are present. Circumstances a	ire not normal due to agricuit	urai activities.			
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is require	ed; check all tha	t apply)	Secondary Indicators (minim	num of two required)			
				Surface Soil Cracks (B6)				
Surface Water (A1)		Water-Sta	ined Leaves (B9)					
High Water Table (A2)		Aquatic Fa	auna (B13)	Drainage Patterns (B10)				
Saturation (A3)		Marl Depo	osits (B15)	Moss Trim Lines (B16)	(C2)			
Water Marks (B1)		Hydroger	Sulfide Odor (C1)	Dry-Season Water Table	(C2)			
Sediment Deposits (B2)		Oxidized	Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)				
Drift Deposits (B3)			of Reduced Iron (C4)	Saturation visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)			on Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			k Surface (C7)	Geomorphic Position (D2)				
ווטוו טפטטאנג נסטו					-/			
•	(07)		1	Shallow Aquitard (D3)	-)			
Inundation Visible on Aerial I	0 ,	Other (Ex	plain in Remarks)	Shallow Aquitard (D3) Microtopographic Relief				
•	0 ,	Other (Ex	plain in Remarks)	Microtopographic Relief				
Inundation Visible on Aerial I Sparsely Vegetated Concave	0 ,	Other (Ex	plain in Remarks)					
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations:	Surface (B8)			Microtopographic Relief				
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present?	Surface (B8) Yes	No <u></u> ✓	plain in Remarks) Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations:	Surface (B8)	No <u></u> ✓		Microtopographic Relief	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present?	Surface (B8) Yes	No No	Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes	No No	Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes Yes	No No No	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5) - - - Wetland Hydrology Present	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches):	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			
Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes Yes Yes Yes n gauge, monit	No _✓ No _✓ No _✓ toring well, aeria	Depth (inches): Depth (inches): Depth (inches): al photos, previous inspections), if	Microtopographic Relief FAC-Neutral Test (D5)	(D4)			

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:	FI	
1.	% Cover	Species?	Status	Number of Dominant Species Are OBL, FACW, or FAC:	inat 1	(A)
2.				Total Number of Dominant Sp	cies	(D)
3.				Across All Strata:	2	(B)
4.				Percent of Dominant Species 1	hat 50	(A/B)
5.				Are OBL, FACW, or FAC:		(A/ b)
6.				Prevalence Index worksheet:		
7.				<u>Total % Cover of:</u>	<u>Multiply</u>	<u>By:</u>
···	0	= Total Cov	er	OBL species 0	x 1 =	0
Sapling/Shrub Stratum (Plot size:15 ft)		- 10101 COV	Ci	FACW species 0	x 2 =	0
1.				FAC species 5	x 3 =	15
2.				FACU species 0	x 4 =	0
3.				UPL species 5	x 5 =	25
				Column Totals 10	(A)	40 (B)
4				Prevalence Index = E	/A = <u>4</u>	
5				Hydrophytic Vegetation Indica	ors:	
6				1- Rapid Test for Hydroph	ytic Vegetation	
7				2 - Dominance Test is > 5	-	
	0	= Total Cov	er	3 - Prevalence Index is ≤	3.0¹	
Herb Stratum (Plot size: <u>5 ft</u>)	_			4 - Morphological Adapta	tions¹ (Provide	supporting
1. Panicum virgatum	5	Yes	FAC	data in Remarks or on a separ	ite sheet)	
2. Zea mays	5	Yes	UPL	Problematic Hydrophytic	Vegetation¹ (Ex	(plain)
3				¹ Indicators of hydric soil and w	etland hydrolo	gy must be
4				present, unless disturbed or p	oblematic	
5				Definitions of Vegetation Strat	1:	
6				Tree – Woody plants 3 in. (7.6	m) or more in	diameter at
7				breast height (DBH), regardles	of height.	
8				Sapling/shrub – Woody plants		DBH and
9				greater than or equal to 3.28 f		
10				Herb – All herbaceous (non-wo		gardless of
11				size, and woody plants less tha		_
12.				Woody vines – All woody vines	greater than 3.	.28 ft in
	10	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Prese	nt? Yes N	lo <u> </u>
1.						
2.						
3.						
4.						
	0	= Total Cov	er			
Demonstrative (In all and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and beauty and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-sets are unable and a sub-set are unable and a		-				
Remarks: (Include photo numbers here or on a separat				FOOV of demains at an acids in day	-d FAC d	الم مناس
Active agricultural field. No positive indication of hydro	onytic vege	etation was	observea (≥	50% of dominant species index	d as FAC- or d	rier).

Profile Des	cription: (Describe t	to the	depth needed to o	locun	nent the	indicato	r or confirm the a	bsence of indicato	ors.)
Depth	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 7.5	10YR 3/1	92	7.5YR 4/4	2	C	М	Silt Loam		
7.5 - 15	2.5Y 4/1	90	5YR 5/8	10		M	Rocky S	ilty Clay	
								<u>,, ,</u>	
							-		
							-		
		-							
		_		_			-		
		- —		_					
							-		
		- —					-		
¹Type: C = C	Concentration, D = I	Deplet	ion, RM = Reduced	d Mat	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pr	roblematic Hydric Soils³:
Histoso	l (A1)		Polyvalue Be	low S	Surface (S	88) (LRR	R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	ırface	(S9) (LRF	R R, MLR	A 149B)		e Redox (A16) (LRR K, L, R)
	istic (A3)		Loamy Muck						
	en Sulfide (A4)		Loamy Gleye	-		. ,	•		Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface	
	d Below Dark Surfa	ice (A1	•					,	elow Surface (S8) (LRR K, L)
	ark Surface (A12)	,,,,	Depleted Da			١		Thin Dark Տւ	urface (S9) (LRR K, L)
	Mucky Mineral (S1)		Redox Depre			,		Iron-Mangar	nese Masses (F12) (LRR K, L, R)
			Redox Depre	255101	15 (F6)			Piedmont Fl	oodplain Soils (F19) (MLRA 149B)
_	Gleyed Matrix (S4)							Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
Sandy R	Redox (S5)							Red Parent I	
Stripped	d Matrix (S6)								v Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, M	ILRA 1	49B)					Other (Expla	
								-	
	of hydrophytic veg		and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or problematic.	
Restrictive I	Layer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:		,							
	ndication of hydric	coil w	s observed The c	ritori	on for hy	dric soil	is mot		
A positive ii	ndication of flydric	SOII Wa	is observed. The C	nten	on for fly	uric son	is met.		

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject C	City/County: Canajo	harie, Montgomery Cou	nty	Sampling Date: 202	1-Sept-23	
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-EES-30_PEM-1		
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: N	A		
Landform (hillslope, terrace, etc.)): Depression	Lo	_ cal relief (concave, conv	ex, none):	Concave	Slope (%): 1 to 10	
Subregion (LRR or MLRA): L	.RR L		Lat: 42.8406555	Long:	-74.5056929	Datum: WGS84	
Soil Map Unit Name: Appletor	າ silt loam, 3 to 8 perc	ent slopes			NWI classification	n: None	
Are climatic/hydrologic condition	is on the site typical fo	or this time of year?	Yes <u></u> ✓ No	(If no	o, explain in Remarks.)		
Are Vegetation, Soil,		significantly distu			•	Yes No	
Are Vegetation, Soil,	or Hydrology	_ naturally problem	natic? (If needed,	explain an	y answers in Remarks.)	
SUMMARY OF FINDINGS – A	Attach site map sh	nowing sampling	point locations, tran	nsects, im	nportant features, e	etc.	
Hydrophytic Vegetation Present	? Yes 🗸	No					
Hydric Soil Present?		j	the Sampled Area within	n a Wetlan	d? Yes	√ No	
Wetland Hydrology Present?		ł	yes, optional Wetland Si		ry Indicators (minimum of two required) ice Soil Cracks (B6) lage Patterns (B10) is Trim Lines (B16)		
	· · · · · · · · · · · · · · · · · · ·		yes, optional wetiand si	ite ib.	<u>vv-⊏t</u>	<u> </u>	
Remarks: (Explain alternative pr							
Covertype is PEM. Area is wetlar	id, all three wetland p	parameters are pres	sent.				
HYDROLOGY							
THE ROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of	one is required; chec	ck all that apply)		-		of two required)	
Surface Water (A1)	V	Vater-Stained Leave	s (B9)				
High Water Table (A2)		Aquatic Fauna (B13)					
✓ Saturation (A3)	N	Marl Deposits (B15)					
Water Marks (B1)	_ <u> /</u> H	lydrogen Sulfide Od	or (C1)	-	eason Water Table (C2) sh Burrows (C8)		
Sediment Deposits (B2)			es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		resence of Reduced			d or Stressed Plants (D	•	
Algal Mat or Crust (B4)		Recent Iron Reductio			orphic Position (D2)	• ,	
Iron Deposits (B5)		hin Muck Surface (C			w Aquitard (D3)		
Inundation Visible on Aerial		Other (Explain in Ren	narks)	✓ Microtopographic Relief (D4)			
Sparsely Vegetated Concave	Surface (B8)			FAC-Ne	eutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No _ _	Depth (in	ches):				
Water Table Present?	Yes 🟒 No	_ Depth (in	ches): 2	Wetland F	Hydrology Present?	Yes No	
Saturation Present?	Yes No	_ Depth (in	ches): 0				
(includes capillary fringe)				-			
Describe Recorded Data (stream	n gauge monitoring v	well aerial photos p	revious inspections) if a	available:			
Describe necorded bata (stream	T Badge, monitoring v	ven, aeriai priotos, p	revious inspections,, in c	avanabic.			
Remarks:							
The criterion for wetland hydrol	ogy is met. A positive	indication of wetlar	nd hydrology was observ	ved (prima	ry and secondary indic	ators were present).	

Tree Stratum (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant S		3	(4)
1				Are OBL, FACW, or FAC	1		(A)
2.				Total Number of Dominant Specie		3	(B)
3.				Across All Strata:			(D)
4.				Percent of Dominant Space Are OBL, FACW, or FAC		100	(A/B)
5.				Prevalence Index works	sheet:	<u> </u>	
5				Total % Cover	of:	Multiply	By:
7				- OBL species	25	x 1 =	25
	0	= Total Cov	er	FACW species	52	x 2 =	104
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	10	x 3 =	30
. Cornus racemosa	10	Yes	FAC	FACU species	10	x 4 =	40
2.				UPL species	0	x 5 =	0
3.				Column Totals	97	(A)	199 (B)
4				Prevalence Ir		2.1	.55 (2)
5.							
5.				Hydrophytic Vegetation		/ogotation	
7				1- Rapid Test for H		regetation	l
Herb Stratum (Plot size:5 ft)	10	= Total Cov	er	\checkmark 2 - Dominance Test is >50% \checkmark 3 - Prevalence Index is \le 3.01			
1. Phalaris arundinacea	45	Yes	FACW	4 - Morphological Adaptations¹ (Provide sup			
2. Eutrochium maculatum	25	Yes	OBL	data in Remarks or on	•		
3. Solidago altissima	10	No No	FACU	Problematic Hydr			
4. Symphyotrichum lanceolatum		No No	FACW	¹Indicators of hydric so		-	gy must be
5. Impatiens capensis		No No	FACW	present, unless disturb		matic	
5. Impacens capensis			FACW	Definitions of Vegetation			
-				Tree – Woody plants 3 i			diameter at
7.				breast height (DBH), re Sapling/shrub – Woody	_	_	DDL and
3.				greater than or equal to	•		JDH allu
).				Herb – All herbaceous (ardless of
0				size, and woody plants			Sul aless of
11				Woody vines – All wood			28 ft in
12				height.	.,		.20
	87	= Total Cov	er	Hydrophytic Vegetatio	n Procent?	/os / N	lo
Noody Vine Stratum (Plot size: <u>30 ft</u>)				Tryuropriyuc vegetatio	וורוכשפווני	ies <u>√</u> I\	
l							
2							
3				.			
4				.			
	0	= Total Cov	er				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

Profile Des	cription: (Describe	to the	•			indicato	r or confirm the a	absence of indicators.)		
Depth	Matrix		Redo	x Fea	tures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 8	10YR 4/2	95	5YR 4/4	5	С	M/PL	Org matter Silt Loam			
8 - 15	10YR 3/1	90	5YR 5/6	10	C	M	Silty Clay Loam			
15 - 18	2.5Y 4/1	85	5YR 5/8	15	C	M	Silty Clay			
	1			. —						
				. —				-		
				. —						
	•			. —				-		
		- —								
		- —		. —						
	-									
	1									
¹Type: C = 0	Concentration, D =	Deplet	tion, RM = Reduce	ed Ma	trix, MS =	= Masked	Sand Grains. ² l	Location: PL = Pore Lini	ng, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Proble	matic Hydric Soils³:	
Histoso	l (A1)		Polyvalue E	Below	Surface ((S8) (LRR	R, MLRA 149B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark S	urfac	e (S9) (LR	R R, MLR	A 149B)		lox (A16) (LRR K, L, R)	
Black H	istic (A3)		Loamy Mud	ky Mi	neral (F1) (LRR K,	L)	· 	or Peat (S3) (LRR K, L, R)	
_✓ Hydrog	en Sulfide (A4)		Loamy Gley	/ed M	atrix (F2)			Dark Surface (S7		
Stratifie	ed Layers (A5)		✓ Depleted M	1atrix	(F3)				Surface (S8) (LRR K, L)	
Deplete	ed Below Dark Surf	ace (A1						Thin Dark Surfac		
l	ark Surface (A12)		Depleted D	ark Sı	urface (F	7)			Masses (F12) (LRR K, L, R)	
Sandy N	Mucky Mineral (S1)		Redox Dep	ressic	ns (F8)				plain Soils (F19) (MLRA 149B)	
Sandy 0	Gleyed Matrix (S4)								6) (MLRA 144A, 145, 149B)	
Sandy F	Redox (S5)							•		
Strippe	d Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)		
Dark Su	urface (S7) (LRR R, N	MLRA 1	49B)					Other (Explain in		
31n dicators	of budrophytic voc	rotatio	n and watland by	drolo	ar morret b		at uplace dieturb	•	Remarks	
-	of hydrophytic veg Layer (if observed)		n and welland ny	urolo	gy must i	l preser	it, uriless disturbe	ed or problematic.		
Restrictive	•	•	Nama			l budaia (Cail Duanauti		Voc. (No.	
	Type:		None	-		Hyaric	Soil Present?		Yes/_ No	
	Depth (inches):									
Remarks:										
A positive i	ndication of hydric	soil w	as observed. The	criter	ion for h	ydric soil	is met.			



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject City/County: Ca	najoharie, Montgomery County	Sampling Date: 2021-Sept-23
Applicant/Owner: SunEast		State: New York	Sampling Point: W-EES-30_PSS-1
Investigator(s): Ethan Snyder, A	Abi Light	Section, Township, Range:	NA NA
Landform (hillslope, terrace, etc.)): Hillslope	Local relief (concave, convex, nor	ne): Undulating
Subregion (LRR or MLRA): L	.RR L	Lat: 42.8403255 Lo	ng: -74.5056579
Soil Map Unit Name: Appleton	ı silt loam, 3 to 8 percent slopes		NWI classification: None
Are climatic/hydrologic condition	ns on the site typical for this time of y		f no, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology significantly o		mstances" present? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturally prol	blematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing sampl	ling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present	? Yes _ 🗸 No		
Hydric Soil Present?	Yes <u></u> ✓ No	Is the Sampled Area within a We	tland? Yes _ 🗸 No
•		· '	W-EES-30
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	VV-EES-30
Remarks: (Explain alternative pro	ocedures here or in a separate repo	rt)	
Covertype is PSS. Area is wetland	d, all three wetland parameters are p	oresent.	
covertype is 1 33.74 ca is welland	a, an effect wedaria parameters are p	oreseric.	
IVDBOLOCY			
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of	one is required; check all that apply) Secon	dary Indicators (minimum of two required)
			rface Soil Cracks (B6)
Surface Water (A1)	_✓ Water-Stained Le	eaves (B9)	
∕ High Water Table (A2)	Aquatic Fauna (E	31.3)	ainage Patterns (B10)
✓ Saturation (A3)	Marl Deposits (B	(15)	oss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide	e ()dor(('1)	y-Season Water Table (C2)
Sediment Deposits (B2)	, ,	oheres on Living Roots (C3) — Cra	ayfish Burrows (C8)
Drift Deposits (B3)	Presence of Red	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	curation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		uction in Tilled Soils (C6)	inted or Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck Surfa	(-2	omorphic Position (D2)
•		· · Sh.	allow Aquitard (D3)
Inundation Visible on Aerial I		r Remarks) ∠ Mi	crotopographic Relief (D4)
Sparsely Vegetated Concave	Surface (B8)		C-Neutral Test (D5)
Field Observations:		<u>=</u>	e (1881)
Surface Water Present?	Vos No / Dont	h (inches):	
	,		
Water Table Present?	•	h (inches): 2 Wetla	nd Hydrology Present? Yes No
Saturation Present?	Yes No Dept	h (inches):	
(includes capillary fringe)			
Describe Recorded Data (stream	n gauge, monitoring well, aerial phot	os, previous inspections), if available	e:
Remarks:			
The criterion for wetland hydrole	ogy is met. A positive indication of w	etland hydrology was observed (pr	imary and secondary indicators were present).
_			

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant	Species That	3	(A)
l				Are OBL, FACW, or FAC			`
 3.				Total Number of Domi Across All Strata:	nant Species	3	(B)
				Percent of Dominant S Are OBL, FACW, or FAC		100	(A/B)
j				Prevalence Index work			
· -				Total % Cover	of:	Multiply E	Bv:
·				OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	30	x 2 =	60
apling/Shrub Stratum (Plot size: <u>15 ft</u>)				FAC species	65	x 3 =	195
. Cornus racemosa	65	Yes	FAC	FACU species	5	x 4 =	20
·				UPL species	0	x 5 =	0
				Column Totals	100	(A)	275 (B)
l				-	ndex = B/A =	2.8	273 (B)
i							
				Hydrophytic Vegetatio			
				1- Rapid Test for		egetation	
	65	= Total Cove	er	2 - Dominance Te			
lerb Stratum (Plot size: <u>5 ft</u>)		-		3 - Prevalence Inc			
. Solidago gigantea	15	Yes	FACW	4 - Morphologica		-	supporting
2. Geum macrophyllum	10	Yes	FACW	data in Remarks or on	•		
3. Symphyotrichum novi-belgii		No	FACW	Problematic Hyd			
. Fragaria virginiana		No	FACU	Indicators of hydric so		, .	gy must be
. Tragana viigimana			17100	present, unless disturb		Hatic	
				Definitions of Vegetati		r mara in d	liameter at
·				Tree – Woody plants 3 breast height (DBH), re			nameter at
·				Sapling/shrub - Wood	_	_	RH and
). 				greater than or equal	• •		Dirana
				Herb – All herbaceous			ardless of
0				size, and woody plants			ui uic55 01
1				Woody vines – All woo			28 ft in
2				height.	ay 1es g. ea.		
Voody Vine Stratum (Plot size: <u>30 ft</u>)	35	= Total Cove	er	Hydrophytic Vegetation	on Present? \	∕es <u> </u>	0
<u></u>							
3.				•			
· .				•			
	0	= Total Cove	ar	-			
	U	- IOLAI COVE	-1				

hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

	cription: (Describe	to the c	•			ndicato	or confirm the al	bsence of indicate	ors.)
Depth _	Matrix		Redo	k Feat	ures				
(inches)	Color (moist)	%_	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
0 - 7.5	10YR 3/2	100					Silt Lo	oam	
7.5 - 18	10YR 4/1	90	5YR 4/6	10	C	M	Silty Clay	y Loam	
								_	
								_	
				. —					
				. —				_	
			-						
								_	
¹Type: C = C	Concentration, D =	Depleti	on, RM = Reduced	Mat	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore	e Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for P	roblematic Hydric Soils³:
Histosol	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck	(A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Su	ırface	(S9) (LRR	R, MLR	A 149B)		e Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Loamy Muck	-		(LRR K, I	_)		/ Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					-	te (S7) (LRR K, L)
	d Layers (A5)		_✓ Depleted Ma						elow Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A1							urface (S9) (LRR K, L)
l ——	ark Surface (A12)		Depleted Da						nese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depre	essior	ıs (F8)			-	loodplain Soils (F19) (MLRA 149B)
Sandy G	Gleyed Matrix (S4)								ic (TA6) (MLRA 144A, 145, 149B)
Sandy R	Redox (S5)							Red Parent	
Stripped	d Matrix (S6)								w Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	MLRA 14	19B)						ain in Remarks)
a								•	
-	of hydrophytic veg		and wetland nyd	rolog	/ must be	e presen	t, uniess disturbe	d or problematic	•
	Layer (if observed)	:							
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):								
Remarks:									
A positive ir	ndication of hydric	soil wa	s observed. The c	riterio	n for hy	dric soil	is met.		
,	,				-				

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County:_ Cana	ajoharie, Montgomery Cou	inty	Sampling Date: 20	21-Sept-23
Applicant/Owner: SunEast			State: New	w York	Sampling Point: W-E	ES-30_UPL-1
Investigator(s): Ethan Snyder,	Abi Light		Section, Township,	Range: N	A	
Landform (hillslope, terrace, etc.)	: Hillslope		Local relief (concave, conv	ex, none):	Undulating	Slope (%): 1 to 10
Subregion (LRR or MLRA):	RR L		Lat: 42.8404474	Long:	-74.5053189	Datum: WGS84
Soil Map Unit Name: Appleton	ı silt loam, 3 to 8 p	ercent slopes			NWI classification	n: None
Are climatic/hydrologic condition	s on the site typica	al for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	1
Are Vegetation, Soil,	or Hydrology ₋	significantly dis	turbed? Are "Norma	al Circumst	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrology ₋	naturally probl	ematic? (If needed,	explain an	y answers in Remarks	i.)
SUMMARY OF FINDINGS – A	ttach site map	showing samplir	ng point locations, tran	nsects, im	portant features,	etc.
Hydrophytic Vegetation Present	? Yes	No _ _ _				
Hydric Soil Present?	Yes	_ ∠ _ No	Is the Sampled Area with	in a Wetlar	nd? Ye	s No <u>_</u>
Wetland Hydrology Present?	Yes _	No / _	If yes, optional Wetland S	Site ID:		
Remarks: (Explain alternative pro					·	
•						
Covertype is UPL. Area is upland	l, not all three wetl	and parameters are	present.			
,	•	'	•			
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; c	heck all that apply)		Secondan	y Indicators (minimum	of two required)
•	·				e Soil Cracks (B6)	,
Surface Water (A1)	_	_ Water-Stained Lea			age Patterns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B1			Trim Lines (B16)	
Saturation (A3)		_ Marl Deposits (B15			eason Water Table (C2)
Water Marks (B1)	_	_ Hydrogen Sulfide		-	sh Burrows (C8)	,
Sediment Deposits (B2)	_	· ·	eres on Living Roots (C3)	-	ition Visible on Aerial	Imagery (C9)
Drift Deposits (B3)	_	_ Presence of Reduc			ed or Stressed Plants (
Algal Mat or Crust (B4)	_	_ Recent Iron Reduc	tion in Tilled Soils (C6)		orphic Position (D2)	51)
Iron Deposits (B5)	_	_ Thin Muck Surface	(C7)		w Aquitard (D3)	
Inundation Visible on Aerial I	magery (B7)	_ Other (Explain in F	Remarks)			١
Sparsely Vegetated Concave	Surface (B8)	•			copographic Relief (D4	·)
				FAC-N	eutral Test (D5)	
Field Observations:	Waa Na	Country (
Surface Water Present?	Yes No _	·	inches):	-	hadaala oo Baasaa 2	Voc. No. 1
Water Table Present?	Yes No _		inches):	- Wetland I	Hydrology Present?	Yes No
Saturation Present?	Yes No _	<u>✓</u> Depth (inches):	-		
(includes capillary fringe)						
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photos	, previous inspections), if a	available:		
	00.,	0 .,	,,,			
Remarks:						
The criterion for wetland hydrol	ogvis not mot No	nocitive indication	of wotland budgelogs was	obcon and		
The criterion for wetland hydron	ogy is not met. No	positive indication (of wedand flydrology was d	observed.		

Tree Stratum (Plot size: 30 ft)		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S		0	(A)
1.				Are OBL, FACW, or FAC:			(A)
2.				Total Number of Domin	ant Species	2	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp		0	(A/B)
5.				Are OBL, FACW, or FAC:			
6.				Prevalence Index works	heet:		
7.				<u>Total % Cover of</u>	of:	Multiply	<u>By:</u>
/·	0	= Total Cov	·····	OBL species	0	x 1 =	0
Capling/Chrush Stratum (Dlot size) 15 ft		TOTAL COV	CI	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0
1.				FACU species	135	x 4 =	540
2.				UPL species	0	x 5 =	0
3				- Column Totals	135	(A)	540 (B)
4				Prevalence In	dex = B/A =	4	
5				Hydrophytic Vegetation	Indicators:	·	
6				1- Rapid Test for H		/ogotation	
7				2 - Dominance Tes		egetatioi	•
	0	= Total Cov	er	3 - Prevalence Inde			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological		l (Dravida	cupporting
1. Poa pratensis	65	Yes	FACU	data in Remarks or on a		-	supporting
2. Schedonorus arundinaceus	50	Yes	FACU	Problematic Hydro	-		(nlain)
3. <i>Taraxacum officinale</i>	15	No	FACU	Indicators of hydric soi			•
4. Trifolium repens	5	No	FACU	present, unless disturbe			gy must be
5.				Definitions of Vegetatio		Hatic	
6.				_		r mara in	diameter at
7.				Tree – Woody plants 3 in breast height (DBH), reg			diameter at
-				Sapling/shrub – Woody		_	DPU and
8.				greater than or equal to			эвн ани
9.				Herb – All herbaceous (gardless of
10				size, and woody plants			garaiess or
11				Woody vines – All wood			28 ft in
12				height.	y viries great	ici tilali 5	.2016111
	135	_= Total Cov	er		5 13 1	,	
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation	n Present?	res r	NO <u>~</u>
1							
2							
3.							
4.							
	0	= Total Cov	er	•			
		_					
Remarks: (Include photo numbers here or on a separat							
No positive indication of hydrophytic vegetation was ob	served (≥	:50% of don	ninant specie	es indexed as FAC– or drie	er).		

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	indicato	r or confirm the a	absence of indicators	.)
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	xture	Remarks
0 - 8	10YR 4/3	98	7.5YR 4/4	2	C	M/PL	Silty C	lay Loam	
8 - 16	10YR 4/1	90	5YR 5/6	10		M	Gravell	y Silty Clay	
								,,,	
	-								
	-	- —							
	-								
		- —					-		
	-								
¹Type: C = 0	Concentration, D =	Deple	tion, RM = Reduce	ed Ma	trix, MS =	= Masked	Sand Grains. ² l	_ocation: PL = Pore Li	ning, M = Matrix.
Hydric Soil	Indicators:							Indicators for Prob	olematic Hydric Soils³:
Histoso	l (A1)		Polyvalue B	elow	Surface ((S8) (LRR	R, MLRA 149B)	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark S						edox (A16) (LRR K, L, R)
Black H	istic (A3)		Loamy Muc	ky Mi	neral (F1) (LRR K,	L)		eat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gley	ed M	atrix (F2)			•	
Stratifie	ed Layers (A5)		_✓ Depleted M	latrix	(F3)			Dark Surface (S	
Deplete	ed Below Dark Surf	ace (A							w Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted D			7)		Thin Dark Surfa	
l	Mucky Mineral (S1)		Redox Dep		-	•		_	se Masses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)				,				dplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_								Red Parent Ma	iterial (F21)
	d Matrix (S6)							Very Shallow D	ark Surface (TF12)
Dark Su	urface (S7) (LRR R, I	MLRA 1	49B)					Other (Explain	in Remarks)
3Indicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must l	be preser	nt, unless disturbe	ed or problematic.	
-	Layer (if observed)		,			Τ'	·	'	
	Type:	•	None			Hydric 9	Soil Present?		Yes No
	• •		None			nyunc .	oui Fresent:		ies NO
	Depth (inches):								
Remarks: A positive i	ndication of hydric	soil w	as observed. The	criter	ion for h	ydric soil	is met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Spra	kers, Montgomery County	,	Sampling Date: 202	1-Sept-21
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-IBF	P-01_PFO-1
Investigator(s): Isaac Pallant, C	arson Rowe, Case	y Pearce	Section, Township,	Range: NA	Α	
Landform (hillslope, terrace, etc.)): Flood Plain		 Local relief (concave, conv	/ex, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA):L	.RR L	.	Lat: 42.8508614	Long:	-74.5193235	Datum: WGS84
Soil Map Unit Name: Phelps g	ravelly loam, fan				NWI classification	n: None
Are climatic/hydrologic condition	s on the site typica	al for this time of ye	ar? Yes <u></u> ✓ No	(If no	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	sturbed? Are "Norm	al Circumst	tances" present?	∕es _ ∠ No
Are Vegetation, Soil,	or Hydrology _	naturally probl	ematic? (If needed,	explain any	y answers in Remarks.))
SUMMARY OF FINDINGS – A	Attach site map	showing samplir	ng point locations, trar	nsects, im	portant features, e	etc.
Hydrophytic Vegetation Present	? Yes	✓_ No				
Hydric Soil Present?		✓_ No	Is the Sampled Area withi	in a Wetland	d? Yes	✓ No
		✓ No	If yes, optional Wetland S		W-IB	
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·			ite ib.	<u> </u>	P-01
Remarks: (Explain alternative pr						
Covertype is PFO. Area is wetlan	d, all three wetland	d parameters are pr	esent.			
HYDROLOGY						
IIIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; ch	heck all that apply)		-	/ Indicators (minimum	of two required)
Surface Water (A1)		_ Water-Stained Lea	ives (B9)		e Soil Cracks (B6)	
High Water Table (A2)	_	_ _ Aquatic Fauna (B1			ge Patterns (B10)	
✓ Saturation (A3)	_	_ Marl Deposits (B1	5)		Frim Lines (B16)	
Water Marks (B1)	_	_ Hydrogen Sulfide	Odor (C1)	-	ason Water Table (C2) Sh Burrows (C8)	
Sediment Deposits (B2)	_		neres on Living Roots (C3)	-	tion Visible on Aerial In	nagery (C9)
Drift Deposits (B3)	_	_ Presence of Reduc			d or Stressed Plants (D	-
Algal Mat or Crust (B4)	_	_	tion in Tilled Soils (C6)		orphic Position (D2)	,
Iron Deposits (B5)		_ Thin Muck Surface			w Aquitard (D3)	
Inundation Visible on Aerial		_ Other (Explain in F	(emarks)	Microt	opographic Relief (D4)	
Sparsely Vegetated Concave	Surface (Bo)			∕ FAC-Ne	eutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	<u>✓</u> Depth	(inches):	_		
Water Table Present?	Yes 🟒 No _	Depth	(inches): 16	Wetland H	lydrology Present?	Yes No
Saturation Present?	Yes 🟒 No _	Depth	(inches): 0			
(includes capillary fringe)				-		
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photos	s, previous inspections), if a	available:		
	8-18-7 · · · ·	0 1,11 1 p 1111	,,,			
Dama adam						
Remarks:			مرام مرام مردر و مرام المرام ا			-4
The criterion for wetland hydrol	ogy is met. A positi	ive indication of wet	land hydrology was obser	ved (primai	ry and secondary indic	ators were present).

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
<u>nee stratam</u> (1 lot size. <u></u>	% Cover	Species?	Status	Number of Dominant Sp	ecies That	5	(A)
1. <i>Salix alba</i>	30	Yes	FACW	Are OBL, FACW, or FAC:			
2. <i>Populus deltoides</i>	20	Yes	FAC	Total Number of Domina	ant Species	5	(B)
3. <i>Carya cordiformis</i>	10	No	FAC	Across All Strata:	i Th -+		
4				Percent of Dominant Sp Are OBL, FACW, or FAC:	ecies mai	100	(A/B)
5				Prevalence Index worksl	hoot:		
6				Total % Cover of		Multiply	D.e.
7.				OBL species	<u>и.</u> О	Multiply x 1 =	<u>ъу.</u> О
	60	= Total Cov	er	<u> </u>			
Sapling/Shrub Stratum (Plot size:15 ft)		-		FACW species	195	x 2 =	390
1. Cornus amomum	50	Yes	FACW	FAC species	40	x 3 =	120
2. Rhamnus cathartica	10	No	FAC	FACU species	0	x 4 =	0
3.				UPL species	0	x 5 =	0
4.				Column Totals	235	(A)	510 (B)
5.				Prevalence Inc	dex = B/A =	2.2	
-				Hydrophytic Vegetation	Indicators:		
6.				1- Rapid Test for Hy	ydrophytic V	egetatior/	า
7				✓ 2 - Dominance Test			
	60	= Total Cov	er	✓ 3 - Prevalence Inde	$ex is \le 3.0^1$		
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological A	Adaptations ¹	(Provide	supporting
Lysimachia nummularia	70	Yes	FACW	data in Remarks or on a	separate sh	ieet)	0
2. <i>Impatiens capensis</i>	30	Yes	FACW	Problematic Hydro	phytic Vege	tation¹ (E:	xplain)
3. <i>Epilobium ciliatum</i>	15	No	FACW	¹Indicators of hydric soil			•
4				present, unless disturbe		-	0,
5				Definitions of Vegetation	n Strata:		
6.				Tree – Woody plants 3 in		more in	diameter at
7.				breast height (DBH), reg			
8.	· ——			Sapling/shrub - Woody		_	DBH and
9.				greater than or equal to			
10				Herb – All herbaceous (r	non-woody)	plants, re	gardless of
				size, and woody plants le	ess than 3.2	8 ft tall.	
11				Woody vines - All woody	y vines great	ter than 3	.28 ft in
12	115	= Total Cov		height.			
W 1 15 G 1 (D) 1 1 20 G 1	115	_= TOTAL COV	er	Hydrophytic Vegetation	Present? \	/es ./ 1	No.
Woody Vine Stratum (Plot size:30 ft))		<u>-</u>	-
1							
2							
3							
4							
	0	= Total Cov	er				
				-			

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

Profile Desc	cription: (Describe t	to the	depth needed to d	docun	nent the	indicato	r or confirm the	absence of indicators	s.)
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	xture	Remarks
0 - 17	10YR 3/2	95	7.5YR 5/8	5	С	М	Sand	ly Loam	
17 - 20	2.5Y 4/1	75	5YR 5/6	25	С	M	Sandy	Clay Loam	
				. —					
		- —					-		
		- —		. —					
				. —					
		- —							
				. —					
		- —		. —					
¹Type: C = C	Concentration, D = I	Deplet	ion, RM = Reduce	d Mat	rix, MS =	Masked	Sand Grains. 2	Location: PL = Pore L	ining, M = Matrix.
Hydric Soil I	Indicators:							Indicators for Pro	blematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	elow S	Surface (S	88) (LRR	R, MLRA 149B)	2 cm Muck (A1	10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		Thin Dark Sເ	ırface	(S9) (LRF	R R, MLR	A 149B)		Redox (A16) (LRR K, L, R)
Black Hi			Loamy Mucl			(LRR K,	L)		eat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (
	d Layers (A5)		Depleted Ma						ow Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (A1							face (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
	flucky Mineral (S1)		Redox Depr	essioi	1S (F8)			Piedmont Floo	odplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)							Mesic Spodic ((TA6) (MLRA 144A, 145, 149B)
-	ledox (S5)							Red Parent Ma	
	d Matrix (S6)							Very Shallow [Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 1	49B)					Other (Explain	in Remarks)
3Indicators	of hydrophytic veg	etatior	n and wetland hyd	rolog	y must b	e preser	nt, unless disturb	ed or problematic.	
-	_ayer (if observed):				-	ĺ		,	
	Type:		None			Hvdric	Soil Present?		Yes No
	Depth (inches):			•		'			
Remarks:	Depart (menes).								
	ndication of hydric	coilwa	s observed The	ritori	on for by	dric coil	is mot		
A positive ii	idication of flydric	SOII Wo	as observed. The C	.iiteiii	off for fly	uric son	is filet.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Project/Site: Flat Creek Solar Pro	ject		City/County: Spra	kers, Montgomery County	/	Sampling Date: 202	1-Sept-21
Applicant/Owner: SunEast				State: Nev	w York	Sampling Point: W-IBI	P-01_UPL-1
Investigator(s): Isaac Pallant, C	arson Rowe, (Casey	Pearce	Section, Township,	Range: NA	4	_
Landform (hillslope, terrace, etc.)	: Levee			Local relief (concave, conv	/ex, none):	Convex	Slope (%): 1 to 3
Subregion (LRR or MLRA): L	RR L			Lat: 42.8510515	Long:	-74.5195054	Datum: WGS84
Soil Map Unit Name: Phelps gi	ravelly loam, f	an				NWI classification	n: None
Are climatic/hydrologic condition	s on the site t	ypica	l for this time of ye	ar? Yes <u>✓</u> No	(If no	, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrol	ogy _	significantly dis	turbed? Are "Norma	al Circumst	ances" present?	Yes No
Are Vegetation, Soil,	or Hydrol	ogy_	naturally probl	ematic? (If needed,	explain an	y answers in Remarks.)
SUMMARY OF FINDINGS – A	ttach site n	nap :	showing samplir	ng point locations, trar	nsects, im	portant features, e	etc.
Hydrophytic Vegetation Present	?	Yes	No / _				
Hydric Soil Present?		Yes	No / _	Is the Sampled Area withi	in a Wetlan	d? Yes	No⁄_
Wetland Hydrology Present?		Yes	No / _	If yes, optional Wetland Si	ite ID:		
	ocaduras har						
Remarks: (Explain alternative pro							
Covertype is UPL. Area is upland	l, not all three	wetl	and parameters are	e present.			
I			•	•			
HYDROLOGY							
Wetland Hydrology Indicators:							
					_	_	
Primary Indicators (minimum of	one is require	ed; ch	neck all that apply)		Secondary	<u>/ Indicators (minimum</u>	of two required)
Surface Water (A1)			Water Stained Lea	was (PO)	Surface	e Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)		-	_ Water-Stained Lea _ Aquatic Fauna (B1		Draina	ge Patterns (B10)	
Fight water Table (A2) Saturation (A3)			_ Aquatic Fauria (B1 _ Marl Deposits (B1!		Moss 1	Trim Lines (B16)	
Saturation (AS) Water Marks (B1)			_ Mari Deposits (B1: _ Hydrogen Sulfide		Dry-Se	ason Water Table (C2)	
Sediment Deposits (B2)				neres on Living Roots (C3)	Crayfis	sh Burrows (C8)	
Sediment Deposits (B2) Drift Deposits (B3)			_ Oxidized Kriizospi _ Presence of Reduc	_	Satura	tion Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)			='	tion in Tilled Soils (C6)	Stunte	d or Stressed Plants (D	01)
Algai Mat of Crust (B4) Iron Deposits (B5)		-			Geomo	orphic Position (D2)	
Iron Deposits (B3) Inundation Visible on Aerial I	magony (R7)		Thin Muck Surface		Shallov	w Aquitard (D3)	
	0 ,		Other (Explain in F	Remarks)	Microt	opographic Relief (D4)	
Sparsely Vegetated Concave	Surface (Bo)				FAC-Ne	eutral Test (D5)	
Field Observations:							
Surface Water Present?	Yes		•	inches):	_		
Water Table Present?	Yes	No _	<u>✓</u> Depth (inches):	Wetland F	lydrology Present?	Yes No
Saturation Present?	Yes	No _	✓ Depth (inches):	_		
(includes capillary fringe)							
Describe Recorded Data (stream	n gauge, moni	torin	well, aerial photos	s, previous inspections), if a	available:		
Describe recorded bata (stream	· Buage, mom		5 Well, derial priotos	,, previous inspections,, in c	avanabic.		
l 							
Remarks:							
The criterion for wetland hydrol	ogy is not me	t. No	positive indication of	of wetland hydrology was o	observed.		
criterion for Wedana nyaron	٥٥٠ ال ١٥٠ الاد		positive marcation (Jager vea.		
İ							

	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	0	(4)
30	Yes	UPL	Are OBL, FACW, or FAC:		(A)
10	Yes	FACU	Total Number of Dominant Species	6	(B)
			Across All Strata:		
			·	0	(A/B)
				Multiply	D. a
					<u>ъу.</u> О
40	= Total Cov	er	· -	-	0
,	-			-	
20	Yes	FACU	· -	-	0
			· -	-	500
			· -	-	150
					650 (B)
			Prevalence Index = B/A =	4.2	
			Hydrophytic Vegetation Indicators:		
			1- Rapid Test for Hydrophytic	Vegetation	1
20	= Total Cov	or	2 - Dominance Test is > 50%		
	- Total Cov	Ci	3 - Prevalence Index is $\leq 3.0^{1}$		
45	Voc	EACH	4 - Morphological Adaptation:	s¹ (Provide	supporting
			·		
			, , , ,	=	
	res	FACU	,	,	gy must be
				ematic	
			_		
					diameter at
			-	_	
			- I		DBH and
					gardless of
					20 ft :
			-	ater trian 3	.20 11 111
95	= Total Cov	er			
			Hydrophytic Vegetation Present?	Yes N	No <u> </u>
			-		
			- ₁		
	20 20 45 25 25	20 Yes 20 = Total Cov 45 Yes 25 Yes 25 Yes	20 Yes FACU 20 = Total Cover 45 Yes FACU 25 Yes FACU 25 Yes FACU	FACW species 0 FAC species 0 FACU species 125 UPL species 30 Column Totals 155 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic 2- Dominance Test is > 50% 3- Prevalence Index is ≤ 3.0¹ 4- Morphological Adaptation: data in Remarks or on a separate suppresent, unless disturbed or problet of the present, f the present of the pre	Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply

	•	to the de	•			ndicator	or confirm the a	bsence of indicators.)	
Depth _	Matrix		Redox						
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc²		Texture	Remarks
0 - 22	10YR 4/4	100					Rocky S	Silty Clay Loam	
-									
							_		
				-					
		·		-					
		. — .		- —					
¹Type: C = C	oncentration, D = I	Depletio	n, RM = Reduced	Matr	rix, MS =	Masked	Sand Grains. ² L	ocation: PL = Pore Linin	g, M = Matrix.
Hydric Soil I	ndicators:	· · · · · ·						Indicators for Proble	matic Hydric Soils³:
Histosol			Polyvalue Be	ow S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck (Δ10)	(LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Su					Coast Prairie Red	
Black Hi			Loamy Mucky						or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)			Dark Surface (S7)	
Stratifie	d Layers (A5)		Depleted Ma	rix (F	- 3)				Surface (S8) (LRR K, L)
Deplete	d Below Dark Surfa	ace (A11)	Redox Dark S	urfac	ce (F6)			Thin Dark Surface	
Thick Da	irk Surface (A12)		Depleted Dar			1			Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			•	lain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)							· ·	5) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)							Red Parent Mater	
Stripped	l Matrix (S6)							Very Shallow Dar	
Dark Su	rface (S7) (LRR R, N	ILRA 149)B)					Other (Explain in	
								•	Remarks)
I ————	of hydrophytic veg		ind wetland hydr	ology	/ must be	e presen	t, unless disturbe	ed or problematic.	
	.ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes No <u>_</u>
	Depth (inches):								
Remarks:									
No positive	indication of hydri	c soils w	as observed. The	crite	rion for l	hydric so	oil is not met.		
L									



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Canajo	harie, Montgomery Cou	ınty	Sampling Date: 202	21-Sept-22		
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-IBI	P-02_PEM-1		
Investigator(s): Isaac Pallant, C	arson Rowe, Casey	/ Pearce	Section, Township,	Range: N	Α			
Landform (hillslope, terrace, etc.)): Swale	Lo	_ cal relief (concave, conv	/ex, none):	Concave	Slope (%): 1 to 3		
Subregion (LRR or MLRA): L	.RR L	-	Lat: 42.8497127	Long:	-74.524247	Datum: WGS84		
Soil Map Unit Name: Phelps g	ravelly loam, fan				NWI classification	n: R2UB, R2UBH		
Are climatic/hydrologic condition	is on the site typica	l for this time of year?	Yes No	(If no	o, explain in Remarks.)			
Are Vegetation, Soil,	or Hydrology _	significantly distu	rbed? Are "Norm	al Circums	tances" present?	Yes 🟒 No		
Are Vegetation, Soil,	or Hydrology _	naturally problen	natic? (If needed,	explain an	ıy answers in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site map	showing sampling	point locations, trai	nsects, in	nportant features, e	etc.		
Hydrophytic Vegetation Present	? Yes	✓_ No						
Hydric Soil Present?		j	the Sampled Area withi	in a Wetlan	nd? Yes	No		
Wetland Hydrology Present?		· ·	yes, optional Wetland S			W-IBP-02		
	· · · · · · · · · · · · · · · · · · ·		yes, optional wetiand 5	ite iD.	VV-1E	DP-02		
Remarks: (Explain alternative pr								
Covertype is PEM. Area is wetlar	id, all three wetlan	d parameters are pres	sent. wetland swale at fi	ield edge, li	ikely used for drainage	•		
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required; ch	neck all that apply)		Secondar	y Indicators (minimum	of two required)		
(Surface Water (A1)		Water Stained Leave	c (PO)	Surfac	e Soil Cracks (B6)			
Surface Water (A1) High Water Table (A2)	_	_ Water-Stained Leave _ Aquatic Fauna (B13)	2 (69)	Draina	Drainage Patterns (B10)			
✓ Saturation (A3)		_ Marl Deposits (B15)			Trim Lines (B16)			
Water Marks (B1)		_ Mari Deposits (B15) _ Hydrogen Sulfide Oc	lor (C1)		y-Season Water Table (C2)			
Sediment Deposits (B2)	_		es on Living Roots (C3)	-	sh Burrows (C8)			
Drift Deposits (B3)	_	_ Presence of Reduced	-		turation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		_ Recent Iron Reduction			ed or Stressed Plants (D	01)		
Iron Deposits (B5)		_ Thin Muck Surface ((orphic Position (D2)			
Inundation Visible on Aerial	Imagery (B7)	_ Other (Explain in Rer			w Aquitard (D3)			
Sparsely Vegetated Concave	• .	- ` '	,		topographic Relief (D4)			
Field Observations				✓ FAC-N	eutral Test (D5)			
Field Observations:	Van d Na	Danath (in	ala a a \.					
Surface Water Present?	Yes _ 🗸 No _	•	· · · · · · · · · · · · · · · · · · ·	-[
Water Table Present?	Yes No		·	- Wetland I	Hydrology Present?	Yes No		
Saturation Present?	Yes No	Depth (in	ches): 0	-				
(includes capillary fringe)								
Describe Recorded Data (strean	າ gauge, monitoring	g well, aerial photos, p	revious inspections), if	available:				
Remarks:								
The criterion for wetland hydrol	ogy is met. A positi	ve indication of wetla	nd hydrology was obser	ved (prima	ry and secondary indic	ators were present).		
The enterior for Wetland Hydron	06y 15 met. 71 positi	ve maleacion of weda	ia nyarology was obser	vea (prima	iny ana secondary maie	acors were present,		

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test works Number of Dominant				
1.	70 COVC.	Species.	Status	Are OBL, FACW, or FAC		1	(A)	
2.				Total Number of Domi	nant Species	1	(D)	
3.				Across All Strata:			(B)	
4.				Percent of Dominant S Are OBL, FACW, or FAC	•	100	(A/B)	
5				Prevalence Index work				
6				Total % Cover of:		Multiply By:		
7				OBL species	10	x 1 =	10	
	0	= Total Cov	er	FACW species	95	x 2 =	190	
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	0	x 3 =	0	
1				FACU species	5	x 4 =	20	
2				UPL species	0	x 5 =	0	
3				Column Totals	110	(A)	220 (B)	
4					ndex = B/A =	2	220 (3)	
5				Hydrophytic Vegetatio				
6				1- Rapid Test for		/egetatio	n	
7				*		regetation	11	
	0	= Total Cov	er	✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤ 3.0¹				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphologica		1 (Provide	cupporting	
1. <i>Phalaris arundinacea</i>	70	Yes	FACW	data in Remarks or on			. supporting	
2. <i>Impatiens capensis</i>	15	No	FACW	Problematic Hyd			xplain)	
3. <i>Eutrochium maculatum</i>	10	No	OBL	¹Indicators of hydric so			•	
4. <i>Solidago gigantea</i>	5	No	FACW	present, unless disturb			03	
5. <i>Solidago canadensis</i>	5	No	FACU	Definitions of Vegetati	on Strata:			
6. <i>Symphyotrichum lanceolatum</i>	5	No	FACW	Tree – Woody plants 3	in. (7.6 cm) o	r more in	diameter at	
7				breast height (DBH), re	egardless of h	eight.		
8.				Sapling/shrub - Wood	y plants less t	han 3 in.	DBH and	
9.				greater than or equal	to 3.28 ft (1 m) tall.		
10.				Herb – All herbaceous			gardless of	
11				size, and woody plants				
12.				Woody vines – All woo	dy vines grea	ter than 3	3.28 ft in	
	110	= Total Cov	er	height.				
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	on Present? `	res 🔽	No	
1								
2.								
				•				
4.				•				
		= Total Cov		•				

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation). Ag swale.

	•	to the de	•			ndicato	or confirm the ab	osence of indicators.)	
Depth _	Matrix		Redox				_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		exture	Remarks
0 - 4.5	10YR 3/2	100		_				Clay Loam	
4.5 - 20	10YR 4/1	100		_			Rocky Sil	ty Clay Loam	
		· ·		_					
				_					
		· ·		_					
				_					
				_		. .			
		Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Linin	
Hydric Soil I								Indicators for Proble	matic Hydric Soils³:
Histosol			Polyvalue Bel					2 cm Muck (A10)	(LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Su					Coast Prairie Red	ox (A16) (LRR K, L, R)
Black His			Loamy Mucky			(LRR K,	L)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleye					Dark Surface (S7)	(LRR K, L)
	d Layers (A5)		Depleted Mat					Polyvalue Below S	Surface (S8) (LRR K, L)
	d Below Dark Surfa	ace (ATT)						Thin Dark Surface	e (S9) (LRR K, L)
	rk Surface (A12) lucky Mineral (S1)		Depleted Dar)		Iron-Manganese	Masses (F12) (LRR K, L, R)
			Redox Depre	SSIOI	IS (F8)			Piedmont Floodp	lain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)							Mesic Spodic (TA6	5) (MLRA 144A, 145, 149B)
-	edox (S5)							Red Parent Mater	rial (F21)
	l Matrix (S6)							Very Shallow Dar	k Surface (TF12)
Dark Su	rface (S7) (LRR R, M	ILRA 149)B)					Other (Explain in	
3Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	y must be	e preser	it, unless disturbe	d or problematic.	
Restrictive L	ayer (if observed):								
	Туре:		None			Hydric	Soil Present?		Yes No
	Depth (inches):								
Remarks:									
	idication of nydric to be a significant			iterio	on for nyo	aric soli	is met. Solis poter	itially disturbed from a	gricultural activities, but not



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Can	ajoharie, Montgomery Cou	unty	Sampling Date: 20	21-Sept-22		
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-IE	BP-02_UPL-1		
Investigator(s): Isaac Pallant, C	Carson Rowe, Casey	y Pearce	Section, Township,	, Range: N	A			
Landform (hillslope, terrace, etc.)): Hilltop		Local relief (concave, conv	vex, none):	Convex	Slope (%): 1 to 3		
Subregion (LRR or MLRA):	.RR L		Lat: 42.84965	Long:_	-74.524385	Datum: WGS84		
Soil Map Unit Name: Phelps g	ravelly loam, fan				NWI classification	n: None		
Are climatic/hydrologic condition	ns on the site typica	al for this time of ye	ar? Yes <u>✓</u> No) (If no	o, explain in Remarks.))		
Are Vegetation <u></u> , Soil,	or Hydrology _	significantly di	sturbed? Are "Norm	al Circumst	tances" present?	Yes No		
Are Vegetation, Soil,	or Hydrology _	naturally prob	ematic? (If needed,	, explain an	y answers in Remarks	i.)		
SUMMARY OF FINDINGS – A	Attach site map	showing sampli	ng point locations, trar	nsects, im	portant features,	etc.		
Hydrophytic Vegetation Present	? Ves	No						
			ls the Campled Area within	in a Watlan	dD Vo.	a No (
Hydric Soil Present?		No / _	Is the Sampled Area withi		ur res	sNo/		
Wetland Hydrology Present?	Yes ₋	No ∠	If yes, optional Wetland Si	ite ID:				
Remarks: (Explain alternative pr	ocedures here or i	n a separate report)					
Covertype is UPL. Area is upland	not all three wetl	and narameters are	e nresent intermittently m	nowed plot				
Covertype is OPL. Area is uplant	a, not all three weti	and parameters ar	e present. Intermittently m	iowea piot.				
HYDROLOGY								
Watland Lludrology Indicators								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of	one is required; cl	heck all that apply)		<u>Secondar</u>	<u>y Indicators (minimun</u>	n of two required)		
Curface Water (A1)		Water Stained Le	ny (o.g. (DO)	Surface Soil Cracks (B6)				
Surface Water (A1)		_ Water-Stained Lea		Drainage Patterns (B10)				
High Water Table (A2)	_	_ Aquatic Fauna (B1		Moss	Trim Lines (B16)			
Saturation (A3)		_ Marl Deposits (B1			eason Water Table (C2)		
Water Marks (B1)		_ Hydrogen Sulfide		Cravfish Burrows (C8)				
Sediment Deposits (B2)			neres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		_ Presence of Redu	ced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		_ Recent Iron Redu	ction in Tilled Soils (C6)			D1)		
Iron Deposits (B5)		_ Thin Muck Surface	e (C7)		orphic Position (D2)			
Inundation Visible on Aerial	Imagery (B7)	_ Other (Explain in	Remarks)		w Aquitard (D3)			
Sparsely Vegetated Concave			,	Microt	copographic Relief (D4	.)		
	54.1466 (56)			FAC-N	eutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes No _	<u>✓</u> Depth	(inches):					
Water Table Present?	Yes No _	✓ Depth	(inches):	- Wetland I	Hydrology Present?	Yes No _ _ ✓		
			· -	-	.,			
Saturation Present?	Yes No _	<u>√</u> Deptii	(inches):	-				
(includes capillary fringe)								
Describe Recorded Data (stream	n gauge, monitorin	g well, aerial photo	s, previous inspections), if a	available:				
	. 66-,	6, p	., р					
Dama auton								
Remarks:								
The criterion for wetland hydrol	ogy is not met. No	positive indication	of wetland hydrology was (observed.				

				1			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:			
·	% Cover	Species?	Status	Number of Dominant Specie	es That	1	(A)
1				Are OBL, FACW, or FAC: Total Number of Dominant	Species -		
2				Across All Strata:	Species	2	(B)
3				Percent of Dominant Specie	es That		
4				Are OBL, FACW, or FAC:		50	(A/B)
5				Prevalence Index worksheet	t:		
6.				Total % Cover of:		Multiply	<u>By:</u>
7		 -		OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	50	x 2 =	100
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	10	x 3 =	30
1				FACU species	60	x 4 =	240
2.				UPL species	5	x 5 =	25
3				Column Totals 1	25	(A)	395 (B)
4				Prevalence Index	= B/A =	3.2	
5				Hydrophytic Vegetation Indi	icators:		
6				1- Rapid Test for Hydro		egetation	
7				2 - Dominance Test is		egetation	
	0	= Total Cove	er	3 - Prevalence Index is			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adap		(Provide	supporting
1. <i>Phalaris arundinacea</i>	50	Yes	FACW	data in Remarks or on a sep	•	-	
2. Galium mollugo	40	Yes	FACU	Problematic Hydrophy	tic Veget	ation¹ (Ex	(plain)
3. <i>Taraxacum officinale</i>	15	No	FACU	¹Indicators of hydric soil and	d wetland	hydrolo	gy must be
4. Setaria pumila	10	No	FAC	present, unless disturbed or		-	
5. <i>Trifolium fucatum</i>	5	No	UPL	Definitions of Vegetation Str	rata:		_
6. <i>Glechoma hederacea</i>	5	No	FACU	Tree – Woody plants 3 in. (7	.6 cm) or	more in	diameter at
7				breast height (DBH), regard	less of he	eight.	
8				Sapling/shrub – Woody plan			DBH and
9.				greater than or equal to 3.2			
10				Herb – All herbaceous (non-			gardless of
11				size, and woody plants less			
12				Woody vines – All woody vin	nes greate	er than 3.	.28 ft in
	125	= Total Cove	er	height.			
Woody Vine Stratum (Plot size: 30 ft)		-		Hydrophytic Vegetation Pre	esent? Ye	es N	10 <u>~</u>
1							
2							
3.							
4.							
	0	= Total Cove	er				
Remarks: (Include photo numbers here or on a separat	a sheet)	-					
Residential lawn. No positive indication of hydrophytic		was observ	ed (>50% o	of dominant species indexed a	ıs FAC- nı	r drier)	
Residential lawn. No positive indication of flydrophytic	vegetation	Was observ	ca (<u>=</u> 50% 0	n dominant species indexed d	13 1710 01	arier).	

inches)	Color (moist)	_%_	Color (moist)	%	Type ¹	Loc2	Texture		Remarks		emarks
0 - 20	10YR 4/4	100		_ _ _			Rocky Cl	lay Loam			very
				_ _ _ _							
	 		_ _ _		<u></u>						
	oncentration, D = [Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore L			
dric Soil Ir Histosol			Polyvalue Bel			·0) (I DD I		Indicators for Pro	blematio	Hydric	Soils³:
_ Black His _ Hydroge _ Stratified _ Depleted _ Thick Dal _ Sandy M _ Sandy Gl _ Sandy Re _ Stripped _ Dark Sur	n Sulfide (A4) Layers (A5) Below Dark Surfack Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M	ILRA 149	Depleted Dar Redox Depre	/ Min d Ma rix (f urfac k Sur ssior	neral (F1) trix (F2) F3) ce (F6) rface (F7) ns (F8)	(LRR K, L)	2 cm Muck (Af Coast Prairie F 5 cm Mucky Po Dark Surface (Polyvalue Belo Thin Dark Surf Iron-Mangane Piedmont Floo Mesic Spodic (Red Parent Ma Very Shallow I	Redox (A eat or Pe S7) (LRR ow Surfa face (S9) se Mass odplain S TA6) (MI aterial (F Dark Sur	16) (LRI eat (S3) K, L) ce (S8) (LRR K, es (F12) Goils (F1 LRA 144 21) face (TF	R K, L, R) (LRR K, L, R) (LRR K, L) L) (LRR K, L, R) 9) (MLRA 149B) IA, 145, 149B)
	f hydrophytic vege		and wetland hydr	olog	y must b	e presen	t, unless disturbe	d or problematic.			
٦	ayer (if observed): Type: Depth (inches):		None			Hydric	Soil Present?		Yes	_ No _	∠
emarks: o positive i	ndication of hydri	c soils w	as observed. The	crite	erion for	hydric so	il is not met.				



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Project/Site:	oject	City/Cou	nty: Sprakers, Montgomery County	/ Sampling Da	ate: 2021-Sept-22
Applicant/Owner: SunEast			State: Ne	w York Sampling Poir	nt: W-IBP-03_PFO-1
Investigator(s): Isaac Pallant, (Carson Rowe, C	asey Pearce	Section, Township	, Range: NA	
Landform (hillslope, terrace, etc.	.): Depress	sion	Local relief (concave, conv	vex, none): Concave	Slope (%) : 0 to 1
Subregion (LRR or MLRA):	LRR L		Lat: 42.8474166	Long: -74.5169873	Datum: WGS84
Soil Map Unit Name: Fredonia	a silt loam		<u>.</u>	NWI clas	sification: None
Are climatic/hydrologic condition	ns on the site ty	pical for this t	ime of year? Yes 🟒 No	(If no, explain in Re	marks.)
Are Vegetation, Soil,	or Hydrolc	ogy signif	cantly disturbed? Are "Norm	nal Circumstances" preser	nt? Yes 🟒 No
Are Vegetation, Soil,	or Hydrolc	ogy natur	ally problematic? (If needed,	, explain any answers in R	temarks.)
SUMMARY OF FINDINGS – A	Attach site m	nap showing	sampling point locations, tra	nsects, important fea	tures, etc.
Hydrophytic Vegetation Present				<u> </u>	
, , , ,		res No	i	: Madada 12	Von A No
Hydric Soil Present?		⁄es _ .∕ _ No	· ·	in a Wetland?	Yes No
Wetland Hydrology Present?	Y	∕es _ ∠ _ No	If yes, optional Wetland S	ite ID:	W-IBP-03
Remarks: (Explain alternative pr	rocedures here	or in a separa	te report)		
Covertype is PFO. Area is wetlar	nd all three we	tland paramet	ers are nresent		
Covertype is Pro. Area is wellar	iu, ali tili ee wei	tianu paramet	ers are present.		
1					
HYDROLOGY					
				_	_
Wetland Hydrology Indicators:					
Primary Indicators (minimum of	<u>t one is require</u>	ed; check all tha	at apply)	Secondary Indicators (m	<u>ninimum of two required)</u>
				Surface Soil Cracks (B6)
Surface Water (A1)			ained Leaves (B9)	Drainage Patterns (B	·
High Water Table (A2)		•	auna (B13)	Moss Trim Lines (B16	
Saturation (A3)		Marl Dep	oosits (B15)	Dry-Season Water Ta	
Water Marks (B1)		Hydroge	n Sulfide Odor (C1)	Crayfish Burrows (C8	
Sediment Deposits (B2)		Oxidized	Rhizospheres on Living Roots (C3)	•	
Drift Deposits (B3)		Presence	of Reduced Iron (C4)	✓ Saturation Visible on	
Algal Mat or Crust (B4)		Recent Ir	on Reduction in Tilled Soils (C6)	Stunted or Stressed	
Iron Deposits (B5)			ck Surface (C7)	✓ Geomorphic Position	
Inundation Visible on Aerial	Imagery (B7)		xplain in Remarks)	Shallow Aquitard (D3	
		Other (E)	cpiairi iir Kernarks)	<u>✓</u> Microtopographic Re	elief (D4)
Sparsely Vegetated Concave	Surface (B8)			✓ FAC-Neutral Test (D5	5)
Field Observations:					
Surface Water Present?	Yes 1	No _ ✓	Depth (inches):		
Water Table Present?	Yes 1		Depth (inches):	 Wetland Hydrology Pres 	sent? Yes No
Saturation Present?			· · · · · · · · · · · · · · · · · · ·	-	
	Yes 1	INU <u>/</u>	Depth (inches):	-	
(includes capillary fringe)					<u> </u>
Describe Recorded Data (strear	n gauge, monit	oring well, aer	ial photos, previous inspections), if	available:	
	66-,	6 ,	р, р, р,		
Remarks:					
			6 11 11 1 1	Table 1	
The criterion for wetland hydro	logy is met. A p	ositive indicati	on of wetland hydrology was obser	ved (at least two seconda	ry indicators).
I					

Tree Stratum (Plot size:30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	6	(4)
. Populus tremuloides	30	Yes	FACU	Are OBL, FACW, or FAC:		(A)
. Ulmus americana	15	Yes	FACW	Total Number of Dominant Species Across All Strata:	8	(B)
3. Salix bebbiana	20	Percent cover cannot be greater than a previous	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:	75	(A/B)
		species		Prevalence Index worksheet:		_
·				Total % Cover of:	<u>Multiply</u>	-
				OBL species 0	x 1 = _	0
				FACW species 90	x 2 = _	180
·				FAC species 40	x 3 =	120
	65	= Total Cover		FACU species 50	x 4 =	200
apling/Shrub Stratum (Plot size: 15 ft)				UPL species 0	x 5 = _	0
. Rhamnus cathartica	30	Yes	FAC	Column Totals 180	(A)	500 (B)
. Lonicera morrowii	10	Yes	FACU	Prevalence Index = B/A =	2.8	
3. Cornus amomum	10	Yes	FACW	Hydrophytic Vegetation Indicators:		
l	·			1- Rapid Test for Hydrophytic	Vegetation	
i.				✓ 2 - Dominance Test is >50%		
·				\checkmark 3 - Prevalence Index is $\le 3.0^{\circ}$		
·				4 - Morphological Adaptations	¹ (Provide	supporting
· ·	50	= Total Cover		data in Remarks or on a separate s	heet)	
Herb Stratum (Plot size:5 ft)		-		Problematic Hydrophytic Vege	etation¹ (Ex	plain)
. Onoclea sensibilis	30	Yes	FACW	¹Indicators of hydric soil and wetlar	nd hydrolog	gy must be
2. Symphyotrichum lanceolatum	15	Yes	FACW	present, unless disturbed or proble	matic	
3. Rubus idaeus	10	No	FACU	Definitions of Vegetation Strata:		
i.		INO	TACO	Tree – Woody plants 3 in. (7.6 cm) o	r more in o	diameter a
-				breast height (DBH), regardless of h	neight.	
				Sapling/shrub – Woody plants less	than 3 in. [DBH and
·				greater than or equal to 3.28 ft (1 n	n) tall.	
				Herb – All herbaceous (non-woody)		gardless of
3				size, and woody plants less than 3.2		
)				Woody vines – All woody vines grea	iter than 3.	.28 ft in
0				height.		
1				Hydrophytic Vegetation Present?	Yes 🔽 N	lo
2						
	55	= Total Cover				
Voody Vine Stratum (Plot size: <u>30 ft</u>)						
. Vitis riparia	10	Yes	FAC			
2.						
3.			-			
1.	·					
	10	= Total Cover		`		

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

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

	o trie de				ndicator c	r confirm the a	bsence of indicators	.)
Depth Matrix		Redox	Feat	ures				
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture	Remarks
0 - 20 10YR 3/2	100					Rocky C	lay Loam	
			_					
			_					
			_					
			—				·	-
			_					
			_					
			_					
-			_					
			_					
			_					
			_					
1 Type: C = Concentration, D = I	Depletio	n, RM = Reduced	Matr	ix, MS =	Masked S	and Grains. ² L	ocation: PL = Pore L	ning, M = Matrix.
Hydric Soil Indicators:							Indicators for Prol	olematic Hydric Soils³:
Histosol (A1)		Polyvalue Bel	ow S	urface (S	8) (LRR R,	MLRA 149B)	2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Thin Dark Sur	face	(S9) (LRR	R, MLRA	149B)		edox (A16) (LRR K, L, R)
Black Histic (A3)		_✓ Loamy Mucky	Min	eral (F1)	(LRR K, L)			eat or Peat (S3) (LRR K, L, R)
∕_ Hydrogen Sulfide (A4)		Loamy Gleyed	d Mat	trix (F2)			Dark Surface (
Stratified Layers (A5)		Depleted Mat	rix (F	3)				w Surface (S8) (LRR K, L)
Depleted Below Dark Surfa	ice (A11)	Redox Dark S	urfac	e (F6)				
Thick Dark Surface (A12)		Depleted Dar	k Sur	face (F7)			Thin Dark Surf	
Sandy Mucky Mineral (S1)		Redox Depres	ssion	s (F8)			_	se Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)								dplain Soils (F19) (MLRA 149B)
Sandy Redox (S5)								TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)							Red Parent Ma	
Dark Surface (S7) (LRR R, M	II DA 1 <i>1</i> 0	וסו					•	Park Surface (TF12)
Dark Surface (37) (LRK K, W	ILKA 14:	, (ac					Other (Explain	in Remarks)
³ Indicators of hydrophytic veg	etation a	and wetland hydr	ology	/ must be	e present,	unless disturbe	d or problematic.	
Restrictive Layer (if observed):								
Type:		None			Hydric S	oil Present?	,	∕es _ ✓_ No
Depth (inches):	-				, , , , ,			
								
Remarks:								
A positive indication of hydric	soll was	observed. The cri	iterio	n for nyo	dric soil is	met.		

Vegetation Photos



Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pr	roject	City/County: Spra	kers, Montgomery County	/	Sampling Date: 202	21-Sept-22
Applicant/Owner: SunEast			State: Nev	w York S	ampling Point: W-IB	P-03_UPL-1
Investigator(s): Isaac Pallant,	Carson Rowe, Case	y Pearce	Section, Township,	Range: NA		
Landform (hillslope, terrace, etc	:.): Flat		Local relief (concave, conv	/ex, none):	None	Slope (%): 0 to 1
Subregion (LRR or MLRA):	LRR L		Lat: 42.847587	Long:	74.516879	Datum: WGS84
Soil Map Unit Name: Alton gr	ravelly loam, 3 to 8	percent slopes			NWI classificatio	n: None
Are climatic/hydrologic conditio	ns on the site typica	al for this time of ye	ar? Yes <u></u> ✓ No	(If no,	explain in Remarks.)	
Are Vegetation $\underline{\hspace{0.1cm}\checkmark\hspace{0.1cm}}$, Soil $\underline{\hspace{0.1cm}\checkmark\hspace{0.1cm}}$,	or Hydrology ₋	✓ significantly dis	sturbed? Are "Norma	al Circumsta	inces" present?	Yes No _ _
Are Vegetation, Soil,	or Hydrology ₋	naturally probl	ematic? (If needed,	explain any	answers in Remarks	.)
SUMMARY OF FINDINGS -	Attach site map	showing sampling	ng point locations, trar	nsects, imp	oortant features,	etc.
Hydrophytic Vegetation Presen	-	No	1	<u> </u>		
			La Ala a Cananala di Anna a middle	14/-4/	in v.	- No c
Hydric Soil Present?		No _ _ _	Is the Sampled Area with	iin a wetiand	1? Ye:	s No⁄_
Wetland Hydrology Present?	Yes _	No	If yes, optional Wetland S	Site ID:		
Remarks: (Explain alternative p	rocedures here or i	n a separate report)			
Covertype is UPL. Area is uplan	nd not all three wet	land narameters are	nrecent Circumstances a	re not norm	al due to agricultura	Lactivities
Covertype is OPL. Area is uplan	id, not all three wet	iano parameters are	e present. Circumstances a	are not norm	iai due to agricultura	i activities.
HYDROLOGY						
TIDROLOGI						
Wetland Hydrology Indicators:						
Primary Indicators (minimum o	of one is required; c	heck all that apply)		Secondary	Indicators (minimum	of two required)
-	•	11.32		-	Soil Cracks (B6)	•
Surface Water (A1)	_	_ Water-Stained Lea			ge Patterns (B10)	
High Water Table (A2)	_	_ Aquatic Fauna (B1	3)	_	rim Lines (B16)	
Saturation (A3)	_	_ Marl Deposits (B1	5)		ison Water Table (C2)	
Water Marks (B1)	_	_ Hydrogen Sulfide	Odor (C1)	-		1
Sediment Deposits (B2)	_	_ Oxidized Rhizosph	neres on Living Roots (C3)	-	n Burrows (C8)	(60)
Drift Deposits (B3)	_	_ Presence of Redu	ced Iron (C4)		ion Visible on Aerial I	-
Algal Mat or Crust (B4)		Recent Iron Reduc	tion in Tilled Soils (C6)		l or Stressed Plants (I	J1)
Iron Deposits (B5)	_	_ Thin Muck Surface			rphic Position (D2)	
Inundation Visible on Aerial	l Imagery (B7)	_ Other (Explain in F			Aquitard (D3)	
	• .	_ Other (Explain III)	(Citial K3)	Microto	pographic Relief (D4)
Sparsely Vegetated Concave	e Suriace (Do)			FAC-Ne	utral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No _	✓ Depth	(inches):			
		•		- Motland III	idrolomi Drocont?	Vos No 4
Water Table Present?	Yes No _		(inches):	- wetiand Hy	ydrology Present?	Yes No
Saturation Present?	Yes No _	∠ Depth	(inches):	_		
(includes capillary fringe)						
						
Describe Recorded Data (stream	m gauge, monitorin	ig weii, aeriai photos	s, previous inspections), if a	avaliable:		
Remarks:						
The criterion for wetland hydro	alogy is not met. No	nositive indication	of wetland hydrology was o	observed		
The chechon for wedana nyare	nogy is not met. No	positive indication	or welland hydrology was c	observed.		

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.		Dominant Species?	Indicator Status	Dominance Test worksh Number of Dominant S Are OBL, FACW, or FAC:	pecies That	1	(A)
2.				Total Number of Domin		2	(B)
3.				Across All Strata:			
4.				Percent of Dominant Sp - Are OBL, FACW, or FAC:		50	(A/B)
5				Prevalence Index works			
6.				Total % Cover of		Multiply	Bv.
7				OBL species	0	x 1 =	0
	0	= Total Cove	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species	20	x 3 =	60
1				FACU species	0	x 4 =	0
2				UPL species	50	x 5 =	250
3				Column Totals	70	(A)	310 (B)
4				Prevalence In		4.4	(-)
5				Hydrophytic Vegetation			
6.				1- Rapid Test for H		/egetation	
7				2 - Dominance Tes		egetation	
	0	= Total Cove	er	3 - Prevalence Inde			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological		(Provide	sunnorting
1. Zea mays	50	Yes	UPL	data in Remarks or on a	•		Supporting
2. Setaria pumila	20	Yes	FAC	Problematic Hydro	•	•	plain)
3				¹Indicators of hydric soi			•
4				present, unless disturbe			5,
5.				Definitions of Vegetation			
6.				Tree – Woody plants 3 in		more in o	diameter at
7.				breast height (DBH), reg			
8.				Sapling/shrub – Woody	plants less tl	han 3 in. [BH and
9.				greater than or equal to	3.28 ft (1 m) tall.	
10.				Herb – All herbaceous (non-woody)	plants, reg	gardless of
11.				size, and woody plants l			
12.				Woody vines – All wood	y vines great	ter than 3.	28 ft in
	70	= Total Cove	er	height.			
Woody Vine Stratum (Plot size:30 ft)		-		Hydrophytic Vegetation	Present?	/es N	lo
1.							
2.				•			
3.				-			
4.				•			
		= Total Cove	ar	•			
		- 10101 COV	-1	_			
Remarks: (Include photo numbers here or on a se Active agricultural field. No positive indication of	•	etation was o	observed (≥	≥50% of dominant species	indexed as	FAC– or d	rier).

Profile Desc Depth	cription: (Describe	to the de	epth needed to do			ndicato	or confirm the a	absence of indicators	s.)	
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Tox	cture		Remarks
0 - 20	7.5YR 4/2	100	Color (Illoist)	70	туре	LUC-		Silt Loam		Remarks
0 20	7.511(4/2	100	_	_			- Rocky S	Sile Loaini		
				_						
				_						
				_						
				_						
				_						
				_						
				_						
				_						
-				_			-			
				_			-			
¹Tvpe: C = C	Concentration, D =	Depletio	n. RM = Reduced	— Matr	ix. MS =	 Masked	Sand Grains. ² L	 _ocation: PL = Pore L	ining. M	= Matrix.
Hydric Soil			.,		,			Indicators for Pro		
Histosol			Polyvalue Bel	ow S	urface (S	8) (LRR	R, MLRA 149B)	2 cm Muck (A		•
	oipedon (A2)		Thin Dark Sui					Coast Prairie I		
Black Hi	stic (A3)		Loamy Mucky	/ Min	eral (F1)	(LRR K, I	_)			eat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye					Dark Surface (
	d Layers (A5)		Depleted Mar					Polyvalue Beld		
'	d Below Dark Surfa ark Surface (A12)	ace (ATT)	Redox Dark S Depleted Dar					Thin Dark Sur	face (S9)	(LRR K, L)
	fucky Mineral (S1)		Redox Depre					_		ses (F12) (LRR K, L, R)
_	Gleyed Matrix (S4)		Redox Bepre	331011	13 (10)					Soils (F19) (MLRA 149B)
-	ledox (S5)							·		LRA 144A, 145, 149B)
_	d Matrix (S6)							Red Parent M		
	rface (S7) (LRR R, N	/LRA 149	9B)					Very Shallow I		
								Other (Explair	ı ın kem	arks)
•	of hydrophytic veg		and wetland hydr	ology	/ must be	preser	t, unless disturbe	ed or problematic.		
	_ayer (if observed):									
	Type:		None			Hydric	Soil Present?		Yes	_No <u>_</u>
-	Depth (inches):									
Remarks:										
No positive	indication of hydri	ic soils w	as observed. The	crite	rion for	hydric s	oil is not met.			

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County: Cana	ijoharie, Montgomery Cou	nty	Sampling Date: 202	1-Sept-22
Applicant/Owner: SunEast			State: Nev	w York	Sampling Point: W-IBF	P-04_PEM-1
Investigator(s): Isaac Pallant, C	arson Rowe, Casey	Pearce	Section, Township,	Range: N	Α	
Landform (hillslope, terrace, etc.)): Swale		 Local relief (concave, conv	ex, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA):L	.RR L		Lat: 42.8431158	Long:	-74.5072781	Datum: WGS84
Soil Map Unit Name: Fluvaque	ents, loamy				NWI classification	n: None
Are climatic/hydrologic condition	s on the site typica	l for this time of yea	ar? Yes <u></u> ✓ No	(If no	o, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology _	significantly dis	turbed? Are "Norma	al Circumst	tances" present?	∕es _ ∠ No
Are Vegetation, Soil,	or Hydrology _	naturally proble	ematic? (If needed,	explain an	y answers in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map s	showing samplin	g point locations, trar	nsects, im	nportant features, e	etc.
Hydrophytic Vegetation Present	? Yes _	✓_ No				
Hydric Soil Present?	Yes _	✓ No	Is the Sampled Area within	n a Wetlan	d? Yes _	No
Wetland Hydrology Present?	Yes _	∠ No	If yes, optional Wetland Si	ite ID:	W-IB	P-04
Remarks: (Explain alternative pr			•		·	
				ald.		
Covertype is PEM. Area is wetlar	id, all three wetland	d parameters are pr	resent. successional old fle	eld.		
HYDROLOGY						
						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of	one is required; ch	eck all that apply)		Secondary	/ Indicators (minimum	of two required)
Surface Water (A1)		Water-Stained Lea	ves (B9)		e Soil Cracks (B6)	
✓ High Water Table (A2)		Aquatic Fauna (B1			ge Patterns (B10)	
✓ Saturation (A3)		Marl Deposits (B15			Гrim Lines (В16)	
Water Marks (B1)		Hydrogen Sulfide (ason Water Table (C2)	
Sediment Deposits (B2)			eres on Living Roots (C3)	-	sh Burrows (C8)	
Drift Deposits (B3)		Presence of Reduc	_		tion Visible on Aerial Ir	
Algal Mat or Crust (B4)		=	tion in Tilled Soils (C6)		d or Stressed Plants (D	1)
Iron Deposits (B5)		Thin Muck Surface			orphic Position (D2)	
Inundation Visible on Aerial I		- Other (Explain in R			w Aquitard (D3)	
Sparsely Vegetated Concave			•		opographic Relief (D4)	
F: 1101				FAC-Ne	eutral Test (D5)	
Field Observations: Surface Water Present?	Yes No _ _	/ Depth ((inches):			
Water Table Present?	Yes No		(inches): 1	Wetland F	Hydrology Present?	Yes No
Saturation Present?	Yes _ ✓ _ No		(inches): 0	Wedana	rydrology i resent.	
	163110			-		
(includes capillary fringe)				<u> </u>		
Describe Recorded Data (stream	i gauge, monitoring	g well, aerial photos	, previous inspections), if a	available:		
Remarks:						
The criterion for wetland hydrol	ngy is met A nositi	ve indication of wet	land hydrology was observ	ved (nrima	ry and secondary indic	ators were present)
The effection for wedand flydron	ogy is met. A positiv	ve indication of wet	iana nyarology was observ	vea (priiria	ry and secondary male	ators were presents.

				Danis and Tankan dala			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksh			
4	% Cover	Species?	Status	Number of Dominant Space OBL, FACW, or FAC:	pecies mai	6	(A)
1.				Total Number of Domin	ant Species		
2				Across All Strata:	ane species	7	(B)
				Percent of Dominant Sp	ecies That	05.7	(A (D)
4 5.				Are OBL, FACW, or FAC:		85.7	(A/B)
5 6.				Prevalence Index works	heet:		
6 7.				Total % Cover of	<u>of:</u>	Multiply	By:
/		- Total Cau		OBL species	25	x 1 =	25
Conding/Church Church up (Dict sings 45 ft)		= Total Cov	er	FACW species	70	x 2 =	140
Sapling/Shrub Stratum (Plot size: 15 ft)	15	Voc	EAC.	FAC species	25	x 3 =	75
Cornus racemosa 2.	15	Yes	FAC	FACU species	20	x 4 =	80
3.				UPL species	0	x 5 =	0
				Column Totals	140	(A)	320 (B)
4				Prevalence In	dex = B/A =	2.3	
5.				Hydrophytic Vegetation	Indicators:		
6				1- Rapid Test for H	ydrophytic V	egetation	1
7	4.5	Tatal Car		2 - Dominance Tes	t is >50%		
Hard Charles (District 5 6	15	= Total Cov	er	3 - Prevalence Inde	ex is $\leq 3.0^1$		
Herb Stratum (Plot size:5 ft)	20	Voc	FACU	4 - Morphological		-	supporting
1. Galium mollugo	15	Yes Yes	FACU	data in Remarks or on a	•		
 Solidago gigantea Symphyotrichum lanceolatum 	15			Problematic Hydro			•
	15	Yes Yes	FACW OBL	¹Indicators of hydric soi		-	gy must be
4. Scirpus atrovirens	15			present, unless disturbe		matic	
5. Carex cristatella 6. Symphyotrichym poyae angliae	15	Yes Yes	FACW FACW	Definitions of Vegetation			
Symphyotrichum novae-angliae Iuncus tenuis	10	No No	FAC	Tree - Woody plants 3 in			diameter at
8. Eupatorium perfoliatum	10	No	FACW	breast height (DBH), reg Sapling/shrub – Woody		_	DRU and
9. Eutrochium maculatum	10	No	OBL	greater than or equal to	•		JDI I allu
10.		INU	OBL	Herb – All herbaceous (i			gardless of
				size, and woody plants l			5
11				Woody vines – All wood			.28 ft in
12	125	= Total Cov	or	height.			
Mondy Vina Stratum (Plat size) 20 ft	125	_ 10tal Cov	er	Hydrophytic Vegetation	Present?	∕es 🗸 N	lo
Woody Vine Stratum (Plot size:30 ft) 1.							
2.							
3.							
4.							
		= Total Cov	or				
		- 10tal COV	CI	<u></u>			

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

Fallow field. A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

	•	to the d	•			ndicator	or confirm the ab	osence of indicators.)	
Depth	Matrix		Redox				_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		exture	Remarks
0 - 8	10YR 3/2	100						ilty Clay Loam	
8 - 20	10YR 4/1	90	2.5YR 4/4	10	C	M	Gravel	lly Silty Clay	
									-
								_	
-									
-									
-									-
-									
¹Tvpe: C = 0	Concentration. D =	Depletio	on. RM = Reduced	Matr	ix. MS =	Masked	Sand Grains. ² Lo	ocation: PL = Pore Linin	g. M = Matrix.
Hydric Soil			,		,			Indicators for Proble	
Histoso			Polyvalue Be	low S	urface (S	8) (I RR I	R. MLRA 149R)		•
	pipedon (A2)		Thin Dark Su						(LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muck					Coast Prairie Red	
	en Sulfide (A4)		Loamy Gleye	-		(=	•	•	or Peat (S3) (LRR K, L, R)
	ed Layers (A5)		Depleted Ma					Dark Surface (S7)	
Deplete	ed Below Dark Surf	ace (A11) Redox Dark	Surfac	e (F6)				Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted Da					Thin Dark Surface	Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)		Redox Depre	ession	s (F8)			-	lain Soils (F19) (MLRA 149B)
Sandy (Gleyed Matrix (S4)							· ·	5) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)							Red Parent Mater	
Strippe	d Matrix (S6)							Very Shallow Dar	
Dark Su	ırface (S7) (LRR R, N	MLRA 14	9B)					Other (Explain in	
3Indicators	of hydrophytic veg	etation	and wetland hyd	rology	must he	nresen	t unless disturbe	•	nemarks)
-	Layer (if observed)		ana wedana nya	01065	THUSE BE	presen	t, arriess distarbe	a or problematic.	
Restrictive	=	•	None			Lludric	Coil Procent?		Vos. / No.
	Type:		None			пуштс	Soil Present?		Yes No
	Depth (inches):								
Remarks: A positive i	ndication of hydric	soil was	s observed. The c	riterio	n for hyd	dric soil i	s met.		



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject City/Count	y: Canajoharie, Montgomery Cou	nty Samplin	ng Date: 2021-Sept-22
Applicant/Owner: SunEast		State: New	York Sampling	Point: W-IBP-04_PSS-2
Investigator(s): Isaac Pallant, C	arson Rowe, Casey Pearce	Section, Township,	Range: NA	_
Landform (hillslope, terrace, etc.)): Depression	Local relief (concave, conv	ex, none): Concave	Slope (%): 0 to 1
Subregion (LRR or MLRA): L	.RR L	Lat: 42.8445111	Long: -74.50871	Datum: WGS84
Soil Map Unit Name: Fluvaque	ents, loamy		NWI	classification: None
Are climatic/hydrologic condition	s on the site typical for this tim	ne of year? Yes _✓_ No	(If no, explain i	n Remarks.)
Are Vegetation, Soil,	or Hydrology significa	antly disturbed? Are "Norma	al Circumstances" pre	esent? Yes 🟒 No
Are Vegetation, Soil,	or Hydrology naturall	y problematic? (If needed,	explain any answers	in Remarks.)
SUMMARY OF FINDINGS – A	Attach site map showing s	ampling point locations, tran	sects, important	features, etc.
Hydrophytic Vegetation Present	? Yes No			
Hydric Soil Present?	Yes <u>✓</u> No	j	n a Wetland?	Yes∕_ No
		· ·		
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Si	te ID:	W-IBP-04
Remarks: (Explain alternative pr	•	•		
Covertype is PSS. Area is wetlan	d, all three wetland parameters	s are present.		
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of	one is required: check all that	annly)	Secondary Indicator	s (minimum of two required)
1 Thirtiary indicators (Thirtiminative)	one is required, effect all that	abbið i	Surface Soil Crac	•
Surface Water (A1)		ned Leaves (B9)	Drainage Pattern	
High Water Table (A2)	Aquatic Fa		Moss Trim Lines	
✓ Saturation (A3)	Marl Depo		Dry-Season Wate	
Water Marks (B1)	, ,	Sulfide Odor (C1)	Crayfish Burrows	
Sediment Deposits (B2)		hizospheres on Living Roots (C3)	•	e on Aerial Imagery (C9)
Drift Deposits (B3)		of Reduced Iron (C4)	Stunted or Stress	
Algal Mat or Crust (B4)		n Reduction in Tilled Soils (C6)	Geomorphic Pos	
Iron Deposits (B5)		Surface (C7)	Shallow Aquitard	J (D3)
Inundation Visible on Aerial		lain in Remarks)	Microtopographi	ic Relief (D4)
Sparsely Vegetated Concave	Surface (B8)		✓ FAC-Neutral Test	
Field Observations:				
Surface Water Present?	Yes No _ ✓	Depth (inches):		
Water Table Present?	Yes No	Depth (inches): 11	 Wetland Hydrology	Present? Yes No
Saturation Present?	Yes _ ✓ _ No	Depth (inches): 0	, , , , , , ,	
	163 <u>7</u> 110	<u> </u>		
(includes capillary fringe)				
Describe Recorded Data (stream	i gauge, monitoring well, aerial	photos, previous inspections), if a	ivailable:	
Remarks:				
The criterion for wetland hydrol	ogy is met. A positive indication	n of wetland hydrology was observ	ed (primary and sec	ondary indicators were present).
,		, 6,	,	,

Tree Stratum (Plot size:30 ft)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species T	nat 3	(A)
1				Are OBL, FACW, or FAC:		
2.				Total Number of Dominant Spec	ies 3	(B)
3.				Across All Strata:		
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:	at 	(A/B)
5.				Prevalence Index worksheet:		
6.				Total % Cover of:	<u>Multiply</u>	<u>/ By:</u>
7				- OBL species 0	x 1 =	0
	0	= Total Cov	er	FACW species 70	x 2 =	140
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 55	x 3 =	165
1. Cornus racemosa	45	Yes	FAC	- FACU species 10	x 4 =	40
2.				- UPL species 0	x 5 =	0
3.				- Column Totals 135	(A)	345 (B)
4				Prevalence Index = B/	A = <u>2.6</u>	_
5				Hydrophytic Vegetation Indicate	rs:	
5				1- Rapid Test for Hydrophy		n
7				✓ 2 - Dominance Test is >509	O	
	45	= Total Cov	er			
Herb Stratum (Plot size: <u>5 ft</u>)				4 - Morphological Adaptati		supporting
1. Onoclea sensibilis	30	Yes	FACW	data in Remarks or on a separat	e sheet)	
2. <i>Solidago gigantea</i>	30	Yes	FACW	Problematic Hydrophytic \	egetation¹ (E	xplain)
3. Solidago canadensis	10	No	FACU	¹ Indicators of hydric soil and we	tland hydrolo	ogy must be
4. <i>Symphyotrichum lanceolatum</i>		No	FACW	present, unless disturbed or pro	blematic	
5. Euthamia graminifolia	10	No	FAC	Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cr	n) or more in	diameter a
7				breast height (DBH), regardless	of height.	
8				Sapling/shrub – Woody plants le		DBH and
9				greater than or equal to 3.28 ft		
10				Herb – All herbaceous (non-woo		egardless of
11				size, and woody plants less than		2006:
12				Woody vines – All woody vines g	reater than 3	3.28 ft in
	90	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Presen	t? Yes 🟒	No
1						
2				_		
3.						
4.						
		= Total Cov	er	-		

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is \leq 3.00).

Profile Desc	cription: (Describe	to the	depth needed to d	docun	nent the	indicato	r or confirm the a	bsence of indicato	ors.)
Depth	Matrix		Redox	(Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Text	ture	Remarks
0 - 6	10YR 3/2	90	2.5YR 4/6	10	С	M	Silty Cla	y Loam	
6 - 20	10YR 4/1	75	7.5YR 5/8	25	С	M	Silty	Clay	
				. —		·			
		_				·			
			-	. —			-		
	-						•		
							-		
		- —		. —		· ——			
		- —							
							<u> </u>		
	Concentration, D =	Deplet	ion, RM = Reduce	d Mat	rıx, MS =	Masked	Sand Grains. ² L		E Lining, M = Matrix.
Hydric Soil								Indicators for P	roblematic Hydric Soils³:
Histosol			Polyvalue Be					2 cm Muck ((A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Thin Dark Su					Coast Prairi	e Redox (A16) (LRR K, L, R)
Black Hi			Loamy Muck	-		(LRR K,	L)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye					Dark Surfac	e (S7) (LRR K, L)
	d Below Dark Surfa	ace (Δ1							elow Surface (S8) (LRR K, L)
	ark Surface (A12)	111) 221	Depleted Da)			urface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depr			,		_	nese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)								loodplain Soils (F19) (MLRA 149B)
-	ledox (S5)								ic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent	
	rface (S7) (LRR R, M	II RA 1	49B)					•	w Dark Surface (TF12)
			.52,					Other (Expla	ain in Remarks)
3Indicators	of hydrophytic veg	etatior	n and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or problematic.	
Restrictive I	_ayer (if observed):								
	Type:		None			Hydric	Soil Present?		Yes/_ No
	Depth (inches):								
Remarks:									
A positive in	ndication of hydric	soil wa	as observed. The o	riteri	on for hy	dric soil	is met.		

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pr	oject	City/County: Can	ajoharie, Montgomery Cou	nty	Sampling Date: 202	21-Sept-22	
Applicant/Owner: SunEast	cant/Owner: SunEast				Sampling Point: W-IBP-04_UPL-1		
Investigator(s): Isaac Pallant, (Carson Rowe, Casey	/ Pearce	Section, Township,	Range: NA	4		
Landform (hillslope, terrace, etc.):		Local relief (concave, conv	ex, none):_	None	Slope (%): 0 to 1	
Subregion (LRR or MLRA):	_RR L		Lat: 42.8430507	Long:_	-74.5073867	Datum: WGS84	
Soil Map Unit Name: Fluvaqu	ents, loamy				NWI classificatio	n: None	
Are climatic/hydrologic condition	ns on the site typica	l for this time of ye	ear? Yes <u>✓</u> No	(If no	, explain in Remarks.)		
Are Vegetation 🟒, Soil,		significantly di		al Circumst	ances" present?	Yes No _ _ _	
Are Vegetation, Soil,	or Hydrology _	naturally prob	lematic? (If needed,	explain any	y answers in Remarks.	.)	
SUMMARY OF FINDINGS – A	Attach site man	showing sampli	ng noint locations tran	nsects im	nortant features	etc	
Hydrophytic Vegetation Present	-	No <u></u> ✓		150003, 1111	portant reatares,		
Hydric Soil Present?	Yes	No _ _ /_	Is the Sampled Area within	n a Wetland	d? Yes	s No _ ∠ _	
Wetland Hydrology Present?		No	If yes, optional Wetland Si				
Remarks: (Explain alternative pr				ite ib.			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum o	f one is required; ch			-	y Indicators (minimum e Soil Cracks (B6)	of two required)	
Surface Water (A1)	_	_ Water-Stained Lea			ge Patterns (B10)		
High Water Table (A2)	_	_ Aquatic Fauna (B1		Moss Trim Lines (B16)			
Saturation (A3) Water Marks (B1)		_ Marl Deposits (B1 _ Hydrogen Sulfide		Dry-Season Water Table (C2)			
Sediment Deposits (B2)			neres on Living Roots (C3)	Crayfish Burrows (C8)			
Drift Deposits (B3)	_	_ Presence of Redu	_	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	-	ction in Tilled Soils (C6)		d or Stressed Plants ([01)	
Iron Deposits (B5)	_	_ Thin Muck Surface	e (C7)		orphic Position (D2) w Aquitard (D3)		
Inundation Visible on Aerial	Imagery (B7)	_ Other (Explain in l	Remarks)		opographic Relief (D4)	1	
Sparsely Vegetated Concave	Surface (B8)				eutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No _	•	(inches):	<u>-</u>			
Water Table Present?	Yes No _	✓ Depth	(inches):	Wetland F	lydrology Present?	Yes No	
Saturation Present?	Yes No _	✓ Depth	(inches):	_			
(includes capillary fringe)							
Remarks: The criterion for wetland hydro							

·				Danis - Tark - Idah - A				
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant		Dominance Test worksheet:				
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)		
1.				Total Number of Dominant Species	-			
2.				Across All Strata:	2	(B)		
3.				Percent of Dominant Species That				
4				- Are OBL, FACW, or FAC:	50	(A/B)		
5				Prevalence Index worksheet:				
6				Total % Cover of:	Multiply	Bv:		
7				- OBL species 0	x 1 =	0		
	0	= Total Cov	er	FACW species 30	x 2 =	60		
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0		
1				FACU species 80	x 4 =	320		
2				- UPL species 0	x 5 =	0		
3				- Column Totals 110	(A)	380 (B)		
4				Prevalence Index = B/A =		\-\ \\ \-\ \		
5				Hydrophytic Vegetation Indicators:				
6				1- Rapid Test for Hydrophytic	Vegetation	ı		
7				2 - Dominance Test is > 50%	vegetation	l		
	0	= Total Cov	er	3 - Prevalence Index is ≤ 3.0¹				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				4 - Morphological Adaptations	:1 (Provide	sunnorting		
1. <i>Phalaris arundinacea</i>	30	Yes	FACW	data in Remarks or on a separate s		supporting		
2. Poa annua	30	Yes	FACU	- Problematic Hydrophytic Vege		(plain)		
3. Plantago major	15	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata:				
4. <i>Trifolium pratense</i>	15	No	FACU					
5. <i>Taraxacum officinale</i>	10	No	FACU					
6. <i>Plantago lanceolata</i>	5	No	FACU	Tree – Woody plants 3 in. (7.6 cm) o	r more in	diameter at		
7. Galium mollugo	5	No	FACU	breast height (DBH), regardless of h	າeight.			
8.				Sapling/shrub – Woody plants less t		DBH and		
9				greater than or equal to 3.28 ft (1 m				
10				Herb – All herbaceous (non-woody)		gardless of		
11				size, and woody plants less than 3.2		20 ft :		
12				Woody vines – All woody vines greatheight.	ter than 3.	.28 Tt IN		
		= Total Cov	er					
Woody Vine Stratum (Plot size:30 ft)				Hydrophytic Vegetation Present?	Yes N	lo <u> /</u>		
1				_				
2				_				
3				_				
4				_				
	0	= Total Cov	er					
Remarks: (Include photo numbers here or on a sep	arate sheet)							
Fallow field. Residential lawn. No positive indication		ic vegetation	n was ohser	rved (>50% of dominant species inde	xed as FAC	– or drier)		
Tallott Holar Noslaci Hail Hail Hail Positive Haileado.	. oy a. opy c	ie vegetatio.		. 104 (250% 01 40.1		0. 0		

		to the d				ndicator	or confirm the	absence of indicators.)			
Depth	Matrix		Redox	Feat	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 17	7.5YR 4/3	100					Clay Loam				
17 - 20	10YR 5/3	90	2.5Y 6/3	10	С	М	Gravell	y Sandy Clay Loam			
-		· ' <u></u> '									
		·									
				_							
				_				_			
		-									
								_			
							-				
<u>1</u> Type: C = 0	Concentration, D =	Depleti	on, RM = Reduced	Matr	ix, MS =	Masked	Sand Grains. 2	Location: $PL = Pore Lining, N$	1 = Matrix.		
Hydric Soil	Indicators:							Indicators for Problemat	ic Hydric Soils³:		
Histoso	l (A1)		Polyvalue Be	low S	urface (S	8) (LRR I	R, MLRA 149B)	2 cm Muck (A10) (I RF	R K. I. MI RA 149B)		
Histic E	pipedon (A2)		Thin Dark Su	rface	(S9) (LRR	R, MLR	A 149B)				
Black H	istic (A3)		Loamy Muck	y Min	eral (F1)	(LRR K, L	_)				
Hydrog	en Sulfide (A4)		Loamy Gleye								
	ed Layers (A5)		Depleted Ma								
	ed Below Dark Surf	ace (A11							exture Remarks y Loam Indy Clay Loam Indicators 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) Polyvalue Below Surface (S8) (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)		
	ark Surface (A12)		Depleted Da								
_	Mucky Mineral (S1)		Redox Depre	ession	ıs (F8)						
-	Gleyed Matrix (S4)							Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy F	Redox (S5)							•			
Strippe	d Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)			
Dark Su	ırface (S7) (LRR R, N	MLRA 14	!9B)					Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)			
3Indicators	of hydrophytic veg	getation	and wetland hyd	rology	/ must be	e presen	t, unless disturb	ed or problematic.			
Restrictive	Layer (if observed)	:									
	Type:		None			Hydric	Soil Present?		Yes No✓		
	Depth (inches):										
Remarks:						ı					
The positive	indication of hydr		as suscived: III.			y une se					

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



Project/Site: Flat Creek Solar Pro	oject	City/County	Root, Montgomery County		Sampling Date: 202	21-Sept-22
Applicant/Owner: SunEast			State: 1	New York	Sampling Point: W-IBI	P-04_UPL-2
Investigator(s): Isaac Pallant, C	arson Rowe, Ca	asey Pearce	Section, Townsh	nip, Range: N.	Α	
Landform (hillslope, terrace, etc.)): Flat		Local relief (concave, co	onvex, none):	Undulating	Slope (%): 1 to 3
Subregion (LRR or MLRA): L	.RR L		Lat: 42.8446715	Long:	-74.5085517	Datum: WGS84
Soil Map Unit Name: Phelps g	ravelly loam, fa	ın			NWI classification	n: None
Are climatic/hydrologic condition	is on the site ty	pical for this time	e of year? Yes	No (If no	o, explain in Remarks.)	
Are Vegetation, Soil,	or Hydrolo	gy significar	ntly disturbed? Are "No	rmal Circums	tances" present?	Yes No
Are Vegetation, Soil,	or Hydrolo	gy naturally	problematic? (If need	ed, explain an	ny answers in Remarks.)
					_	
SUMMARY OF FINDINGS – A			mpling point locations, t	ransects, in	iportant features, e	etc.
Hydrophytic Vegetation Present		Yes No _ _ /				
Hydric Soil Present?		Yes No _ _	Is the Sampled Area w	ithin a Wetlan	ıd? Yes	5 No <u></u> ✓
Wetland Hydrology Present?		Yes No	If yes, optional Wetlan	d Site ID:		
Covertype is UPL. Area is upland	,					
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of 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 Sparsely Vegetated Concave	lmagery (B7)	Water-Stain Aquatic Fau Marl Deposi Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves (B9) na (B13) its (B15) ulfide Odor (C1) izospheres on Living Roots (C Reduced Iron (C4) Reduction in Tilled Soils (C6)	Surfac Draina Moss i Dry-Se Crayfii Satura Stunte Geom Shallo Microt	y Indicators (minimum ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial II ed or Stressed Plants (Date	magery (C9) 01)
Field Observations:				FAC-N	edital lest (D3)	
Surface Water Present?	Yes N	No 🗸 🗆 F	Depth (inches):			
Water Table Present?	Yes N		· —		Hydrology Present?	Yes No
			Pepth (inches):	vveudiiu i	iyarology Fresenti	163100
Saturation Present?	Yes N	No _Z	Pepth (inches):			
(includes capillary fringe)						
Remarks: The criterion for wetland hydrol						

				1		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 1	(4)
1. Ulmus americana	10	Yes	FACW	Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant Specie	s <u> </u>	(D)
3.	· ——			Across All Strata:		(B)
4.	· ——			Percent of Dominant Species That	33.3	(A (D)
	. ——			Are OBL, FACW, or FAC:		(A/B)
5				Prevalence Index worksheet:		
6	. ——			Total % Cover of:	Multiply I	By:
7				OBL species 0	x 1 =	0
	10	= Total Cov	er	FACW species 10	x 2 =	20
Sapling/Shrub Stratum (Plot size: 15 ft)				FAC species 0	x 3 =	0
1				FACU species 110	_ x 4 =	440
2				UPL species 10	_ x5=	50
3				Column Totals 130	_ ^3 _ (A)	510 (B)
4.						510 (в)
5.				Prevalence Index = B/A		
6.				Hydrophytic Vegetation Indicators		
7.	· ——			1- Rapid Test for Hydrophytic	Vegetation	
	0	= Total Cov	-r	2 - Dominance Test is > 50%		
Herb Stratum (Plot size: _ 5 ft)		- Total Cov	-1	3 - Prevalence Index is ≤ 3.0		
1. Solidago canadensis	80	Yes	FACU	4 - Morphological Adaptation	s1 (Provide s	supporting
2. Galium mollugo	30	Yes	FACU	data in Remarks or on a separate	sheet)	
				Problematic Hydrophytic Ve		
3. Daucus carota	10	No	UPL	¹ Indicators of hydric soil and wetla		gy must be
4	. ——			present, unless disturbed or prob	ematic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm)	or more in c	diameter at
7				breast height (DBH), regardless of	_	
8				Sapling/shrub – Woody plants less		BH and
9				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-wood)		gardless of
11.				size, and woody plants less than 3		
12.	·			Woody vines – All woody vines gre	ater than 3.	28 ft in
	120	= Total Cov	er	height.		
Woody Vine Stratum (Plot size:30 ft)	-	-		Hydrophytic Vegetation Present?	Yes N	0
1.						
2	. ———					
3.	. ——			•		
4.	· ——					
4.		- Total Cau				
	0	= Total Cov	21			
Remarks: (Include photo numbers here or on a separate	te sheet.)					
No positive indication of hydrophytic vegetation was ol	bserved (≥	50% of dom	inant specie	es indexed as FAC- or drier). non ma	intained ro	ad shoulder.

		to the d				ndicato	or confirm the	absence of indicators.)		
Depth	Matrix		Redox	Feat	ures					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0 - 8	7.5YR 4/3	100					Clay Loam			
8 - 20	10YR 3/3	90	7.5YR 5/8	10	C	M	Gravel	ly Clay Loam		
	-						-			
	-									
				_						
¹Type: C =	Concentration, D =	Depleti	on, RM = Reduced	Matı	ix, MS =	Masked	Sand Grains. 2l	Location: PL = Pore Lini	ng, M = Matrix.	
Hydric Soil	Indicators:							Indicators for Proble	ematic Hydric Soils ³ :	
Histoso	ol (A1)		Polyvalue Be	low S	urface (S	8) (LRR	R, MLRA 149B)		•	
	pipedon (A2)		Thin Dark Su						(LRR K, L, MLRA 149B)	
	listic (A3)		Loamy Muck						dox (A16) (LRR K, L, R)	
	gen Sulfide (A4)		Loamy Gleye	-			•	•	t or Peat (S3) (LRR K, L, R)	
	ed Layers (A5)		Depleted Ma					Dark Surface (S7		
	ed Below Dark Surf	face (A1						•	Surface (S8) (LRR K, L)	
Thick D	ark Surface (A12)		Depleted Da	rk Sui	face (F7))		Thin Dark Surfac		
Sandy	Mucky Mineral (S1)		Redox Depre	ssion	ıs (F8)			Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy	Gleyed Matrix (S4)									
-	Redox (S5)									
-	ed Matrix (S6)							Red Parent Mate		
	urface (S7) (LRR R, I	МΙ DΔ 1/	IOR)					Very Shallow Da		
Daik 3	urrace (37) (LKK K, I	WILKA 14	190)					Other (Explain in	Remarks)	
3Indicators	s of hydrophytic veg	getation	and wetland hyd	rology	/ must be	e presen	t, unless disturb	ed or problematic.		
Restrictive	Layer (if observed)):								
	Type:		None			Hydric	Soil Present?		Yes No	
	Depth (inches):									
Remarks:						•				
No positiv	e indication of hydr	ric soils v	was observed. The	e crite	rion for l	hydric so	oil is not met.			
1										
1										



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West

