## **EXHIBIT G**



## WETLAND DELINEATION SUMMARY REPORT

Prepared For: HelioSage, LLC							
CONTACT: Nelson Teague							
PROJECT TITLE: Somers Solar Center							
PROJECT LOCATION: 488 South Road, Somers, CT							
Project No: 20120085.A20							
PROJECT DESCRIPTION: Installation of a 6.1 MW photovoltaic renewable energy facility							
DATE(s) OF INVESTIGATION: April 25, 2012, September 26, 2012							
WEATHER: P. Sunny Rain (last 24 hours): 0.01 inches							
METHOD OF WETLAND/WATERCOURSE DELINEATION  Delineation:  Connecticut Inland Wetlands & Watercourses							
U.S. Army Corps of Engineers  Tidal Wetlands							
Flag Number Sequence: <u>A100-A190</u> , <u>B184-B207</u> , <u>C300-C329</u> , <u>D400-D462</u> ,							
Field Plotted: Site sketch Aerial photograph Scale Contours: ft							
METHOD OF UPLAND SOIL DELINEATION  ☐ Field Delineated . ☐ Field confirmed NRCS soil mapping							
FIELD INVESTIGATION METHOD							
Spade & Auger							
SOIL CONDITIONS  Dry Moist Wet Frozen ( in.) Snow cover ( in.)							
The wetland and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance. Classification and mapping of soils on site were conducted in a manner consistent with the U.S. Department of Agriculture <u>Soil Survey Manual</u> (Soil Survey Staff, 1992). This delineation does not constitute an official wetland boundary until such time as it is accepted and approved by local, state or federal regulatory agencies.							
As Prepared By:  Joshua H. Wilson, PWS Soil Scientist							



## WETLAND DELINEATION SUMMARY REPORT

## **PROJECT BACKGROUND**

HelioSage, LLC is proposing to construct a photovoltaic renewable energy system on portions of two parcels of open farm land located at 488 and 458 South Road in Somers, Connecticut (*Figure 1*). The project includes installing approximately 31,000 solar panels on the site in four separate array fields. These arrays are labeled as A, B, C and D on the enclosed Proposed Site Rendering (*Figure 2*). The project is one of two solar developments selected by the Connecticut Department of Energy and Environmental Protection (CTDEEP) on December 23, 2011. HelioSage is currently preparing a Petition to the Connecticut Siting Council for a Declaratory Ruling for Renewable Energy Facility under Connecticut General Statues 16-50k(a).

## SUMMARY OF SOILS

Wetland Soils

Scarboro: Very poorly drained soils formed in sandy glaciofluvial deposits on outwash plains, deltas, and terraces on nearly level and depressed landscapes.

Aquents: Poorly to very poorly drained soils formed in human transported material or on excavated (cut) landscapes.

## Upland Soils

Ellington, Ninigret & Tisbury: Moderately well drained loamy soils formed in silty eolian deposits overlying outwash located on nearly level and gently sloping soils on outwash plains and terraces, typically in slight depressions and broad drainage ways.

Haven: Well drained soils formed in loamy over sandy and gravelly outwash located on nearly level through moderately sloping soils on outwash plains, valley trains, terraces, and water-sorted moraine deposits.

Enfield: Well drained loamy soils formed in a silty mantle overlying glacial outwash. They are nearly level to sloping soils on outwash plains and terraces.

Hartford: Somewhat excessively drained soils formed in sandy glacial outwash located on level to strongly sloping soils on plains and terraces.

Manchester: Excessively drained soils formed in sandy and gravelly glacial outwash and stratified drift located on nearly level to steep soils on outwash plains, terraces, kames, deltas and eskers.

Udorthents: Well drained to excessively drained soils that have been disturbed by cutting or filling, and areas that are typically covered by buildings and pavement.

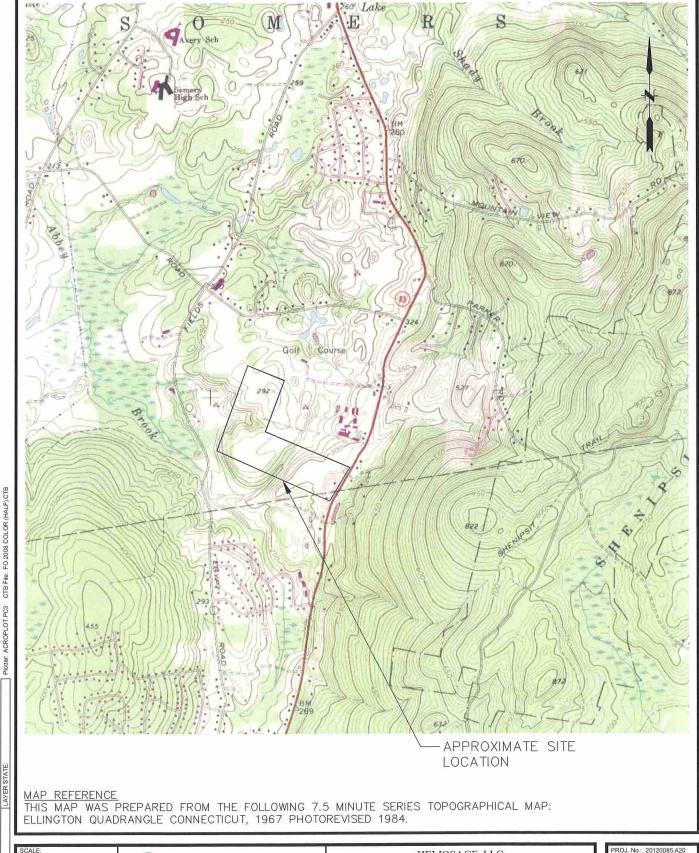


## SUMMARY OF WATERCOURSES AND HYDROLOGY

- The principal watercourse on site is an unnamed perennial tributary of Abbey Brook. It flows in a southerly direction though the middle of the site, between array areas A and B and to the east of array area D. The unnamed stream is located in a distinct drainge way and is fed by groundwater discharge as well as runoff and drainage from the surrounding agricultural fields. Flag sequence A100-A190, as depicted on the attached sheet GI-101, define the southern wetland area in the vicininty of the project.
- North of the existing gravel access road, the unnamed stream is delineated with flag sequence B184-B207 and D400-D462. The eastern side of this reach of the stream is outside of the project limits and was not delineated. Only the are within 100 feet of any likely activity (i.e. thewestern edge of the stram and wetlands) was delineated.
- A small wetland area has begun to form on the western edge of the site (C300-C329). The soil
  in this area have been compacted from historic activities and is fed by groundwater discharge.
  This wetland area has not developed characteristic morphology of wetland (hydric) soil.
  However, hydrology and vegetation indicate that this area is wet for a significant portion of the
  growing season.
- The proposed project extends beyond the limit of mapping depicted on Sheet GI-101. The complete project area, including the area North of the mapping limit, was investigated on April 25. There are no additional wetlands or watercourses within this area.

## **ATTACHMENTS**

- Figure 1 Site Location Map
- Figure 2 Proposed Site Rendering
- Sheet GI-101 Wetland Location Plan
- NRCS Soil Drainage Class Map
- USACE Wetland Determination Data Forms



SOMERS

File Path: J.\DWG\P2012\0085\A20\Civ\liPlan\20120085A20\_LOC01.dwg

Layout FIG 1 Plotted: Fri, April 27, 2012 - 3:02 PM User: STEPHANIE BERMAN

1000 GRAPHIC SCALE

HORZ.

HORZ.: 1" = 2000"

**FUSS&O'NEILL** 

146 HARTFORD ROAD MANCHESTER, CONNECTICL'T 06040 860.646.2469 www.fando.com

HELIOSAGE, LLC

PROJECT LOCATION MAP

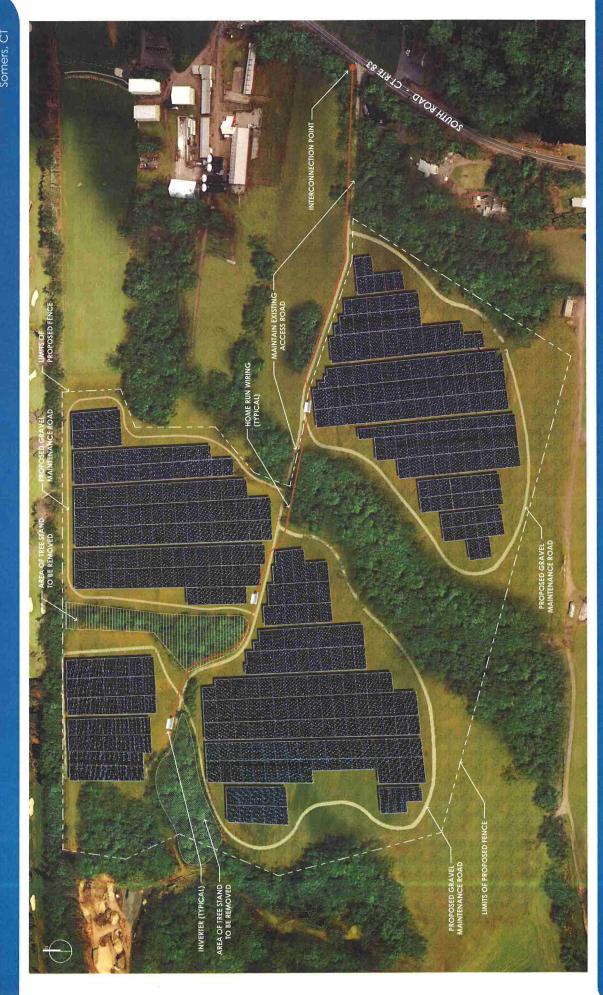
SOMERS SOLAR CENTER

CONNECTICUT

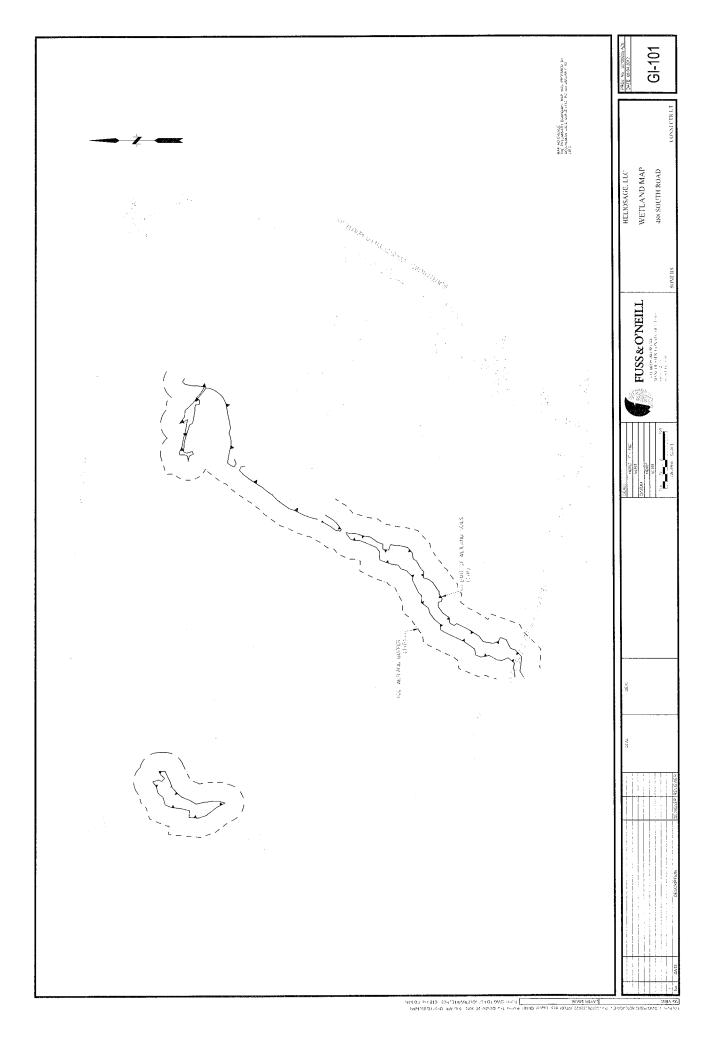
PROJ. No.: 20120085.A20 DATE: 04/27/12

FIGURE 1

# Somers Solar Center



Proposed Site Rendering



10/2/2012 Page 1 of 3

Web Soil Survey National Cooperative Soil Survey

Natural Resources Conservation Service

USDA

## MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Soil Ratings

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Subaqueous

Not rated or not available

## Political Features

Cities

Streams and Canals

Water Features

Transportation

Rails ‡

Interstate Highways

Local Roads

Major Roads

**US Routes** 

## MAP INFORMATION

Map Scale: 1:7,390 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov

This product is generated from the USDA-NRCS certified data as of Coordinate System: UTM Zone 18N NAD83 the version date(s) listed below.

Soil Survey Area: State of Connecticut

Version 10, Mar 31, 2011 Survey Area Data: Date(s) aerial images were photographed: 8/16/2006

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

## **Drainage Class**

	Drainage Class— Summa	ary by Map Unit — State of Conne	ecticut (CT600)	
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
15	Scarboro muck	Very poorly drained	12.5	9.6%
20A	Ellington silt loam, 0 to 5 percent slopes	Moderately well drained	0.1	0.1%
21A	Ninigret and Tisbury soils, 0 to 5 percent slopes	Moderately well drained	6.1	4.7%
32A	Haven and Enfield soils, 0 to 3 percent slopes	Well drained	2.3	1.8%
32B	Haven and Enfield soils, 3 to 8 percent slopes	Well drained	37.1	28.5%
33A	Hartford sandy loam, 0 to 3 percent slopes	Somewhat excessively drained	21.7	16.6%
37C	Manchester gravelly sandy loam, 3 to 15 percent slopes	Excessively drained	48.3	37.1%
37E	Manchester gravelly sandy loam, 15 to 45 percent slopes	Excessively drained	1.7	1.3%
63B	Cheshire fine sandy loam, 3 to 8 percent slopes	Well drained	0.1	0.0%
305	Udorthents-Pits complex, gravelly	Moderately well drained	0.5	0.4%
Totals for Area of	Interest		130.3	100.0%

## Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

## **Rating Options**

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Jamers Solar Center C	*MCounty: To Hand Sampling Date: 4/25//
Applicant/Owner Hely Sase 110	State: <u>C7</u> Sampling Point: <u>A1001</u> Section, Township, Range: <u>Somers</u>
Investorated Title 18 En 150 400	Safes Tallandia Barres Science Science 1
investigator(s). See 18 18 18 18 18 18 18 18 18 18 18 18 18	ection, Township, Range. 55/2/2/2/3
Landform (hillslope, terrace, etc.): Loca	at relief (concave, convex, none):       (40.000 %):       Slope (%):       1.000 %):
Soil Map Unit Name: Sourbare	NWI classification: PFOIE
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes No <u>X</u> (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	
SUMMARY OF FINDINGS - Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.	
Inventory and the second secon	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Le	
High Water Table (A2)  Aquatic Fauna (B	
<ul> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Marl Deposits (B: Hydrogen Sulfide</li> </ul>	
	chayish Barlows (C6)  —— Crayish Barlows (C6)  —— Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)  Presence of Red	
	uction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7) Other (Explain in	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches).	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos.	previous inspections), if available:
gaage, no man ga	provided inepositionally, it distributes
Appear of helis annul for partial	to see be

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

Sampling Point: A(W/

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. A rubrum			<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata:
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL FACW or FAC (A/B)
5	<del></del>			That Are OBL, FACW, or FAC. 30% (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	\$60	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:		•		FACW species x 2 =
1. V (Legaltin	5	y"	PALW	FAC species x 3 =
		<del>-</del>	FACUL	FACU species x 4 =
2. B thunbergi		<del></del>	FAREW	UPL species x 5 =
3. 6 pen 20.0				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7.	- FES			1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%
244	25	= Total Co	ver	2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size:)				3 - Prevalence index is \$3.0      4 - Morphological Adaptations (Provide supporting)
1. I. capenas	60	Y	FACIU	data in Remarks or on a separate sheet)
2 J. Frenders		7	ORL	Problematic Hydrophytic Vegetation¹ (Explain)
3. O. CHARLMOMA		N	FALCOV	
4. R. refers		$\overline{N}$	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. P. rribliam		$\overline{\mathcal{N}}$	NI	
				Definitions of Vegetation Strata:
6. To faditions			1716	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.				at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9	<del></del>			and greater than or equal to 3.28 ft (1 m) tall.
10	<del></del>			Herb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
57 5/28	115	= Total Co	ver	height.
Woody Vine Stratum (Plot size)				
1.				
2				
3.	The state of the following state of the stat			Hydrophytic Vegetation
4.		Andrews had been any of the second		Present? Yes No No
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

	cription: (Describe t	o the de				or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature: %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR25	2	Principal				F3/_	A
2-8	75423/3		~~				Est	AL
8-18	7.54C4/1	90	154124/4	10	<u></u>	PLAM	Est	<u> 691                                   </u>
18-24	75424/1	40	104124/4	10		M+PL	<del>fs1</del>	892
							·	
		***************************************			***************************************			
Type: C=C	oncentration, D=Deple		=Reduced Matrix MAS	S=Macked	Sand Gr		2l coation	: PL=Pore Lining, M=Matrix.
Hydric Soil		Scion, IXIV	reduced matrix, Mic	-ivias/veu	Janu Gr	atto.		for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LRF</b>	R,		Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		RRR MI	RA 149B)		Prairie Redox (A16) (LRR K, L, R)  Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky N	fineral (F1	) (LRR K			urface (S7) (LRR K, L)
	l Layers (A5) Below Dark Surface	(Δ11)	Z Depleted Matrix					lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L)
	ark Surface (A12)	((()))	Redox Dark Sur					anganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark S		7)		Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4) ledox (S5)		Redox Depressi	ions (F8)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent <b>M</b> aterial (F21)
	Matrix (S6)						Very S	hallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MI	LRA 149	3)				Other (	Explain in Remarks)
	hydrophytic vegetation	on and w	etland hydrology mus	t be prese	nt, unless	disturbed o	or problematic	i.
	.ayer (if observed):							
			<del></del>				Hydric Soil	Present? Yes X No
Depth (inc Remarks:	ines):						Hyunc 3011	Fresent? TesNo
Nomana.								
							Allul	
							P	
					N	IL A156	C. Paris	
			A	lui I	s.	9 .	and the second	
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			or way with a company when the first his propagation of propagation and the second of the second of the second	a para disensa para di mangana di	And the state of	ľ		
%.	Abbei	all the Control of State of St						
٠.٧	K LOK							

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: Somers Solar Center city/County Tolland Sampling Date: 4/25/12 Applicant/Owner: Helic Sage UC State: CT Sampling Point: Allel Investigator(s): Jush Wilson, Fet Section, Township, Range: Sight Section Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Conserve Slope (%): 3-59 Subregion (LRR or MLRA): / RR R Lat: 4/0 57 16.37 N Long: 72 27 06.50 N Datum: WGS 53 Soil Map Unit Name: LANCA Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No\_\_\_\_ (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes \_\_\_\_\_ No \_\_\_\_ within a Wetland? Hydric Soil Present? Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID: \_\_\_\_\_ Remarks: (Explain alternative procedures here or in a separate report.) Rainfall approx 3" less than normal **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Drainage Patterns (B10) \_\_\_ Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ High Water Table (A2) \_\_\_ Moss Trim Lines (B16) \_\_\_ Aquatic Fauna (B13) Dry-Season Water Table (C2) \_\_\_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Water Marks (B1) \_\_\_ Crayfish Burrows (C8) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) \_\_\_ Stunted or Stressed Plants (D1) \_\_\_ Drift Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) \_\_\_ Geomorphic Position (D2) \_\_\_ Algal Mat or Crust (B4) \_\_\_ Shallow Aquitard (D3) \_\_\_ Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Yes \_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_ Surface Water Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): 2 Water Table Present? Yes \_\_\_\_ No 💢 Depth (inches): 🔀 Wetland Hydrology Present? Yes \_\_\_\_\_ No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

<b>VEGETATION</b> – Use scientific names of plants	V	EGET	ATION -	Use	scientific	names	of	plants.
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Sampling Point: AUC

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. () Gravicana		∆/	FACLU	Number of Dominant Species
2. C. francista alba		$\frac{7}{}$	MI	That Are OBL, FACW, or FAC: (A)
l 2		3. /		Total Number of Dominant
3. C. Serona		<del></del>	FACUL	Species Across All Strata: (B)
4. C. caroliniana	<u> </u>		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACV, OF FAC. (AVB)
6				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
27.5/9	45	= Total Cov	er er	OBL species
Sapling/Shrub Stratum (Plot size: / > )			4	FACW species 25 x 2 = 50
1. B flownbergi	<u> 40 </u>	<u> </u>	FACE.	FAC species
2. R. mulhflora	30	<u> </u>	FACL	FACU species <u>90</u> x4= <u>360</u>
3				UPL species $x = 0$ $x = 0$ Column Totals: $150$ (A) $515$ (B)
4				Column Totals: (A) (A) (B)
5				Prevalence Index = B/A = 3 4
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	-7,	= Total Cov		2 - Dominance Test is >50%
Herb Stratum (Plot size:)	75	= total Cov	er	3 - Prevalence Index is ≤3.0¹
		V	. And the second	4 - Morphological Adaptations (Provide supporting
1. Par pacticions			FAL	data in Remarks or on a separate sheet)
2. I capensis	<u> 2e</u>	<u></u>	$F_{i}^{\alpha_{i}}$	Problematic Hydrophytic Vegetation¹ (Explain)
3.			4	Indicators of hydric soil and wetland hydrology must
4	***************************************			be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines - All woody vines greater than 3.28 ft in
1242	35	= Total Cov	ver	height.
Woody Vine Stratum (Plot size:)				
1				
2.				
Alottiff				I budana budia
3		~~~		Hydrophytic Vegetation
4		T-1-1-0		Present? Yes No X
Remarks: (Include photo numbers here or on a separate s		= Total Cov	/er	
Remarks: (moldde photo numbers here or off a separate s	meet.)			

Profile Desc Depth	cription: (Describe to Matrix	the dep		ment the i		or confirm	the absence of in	dicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	2.54R2.5/2				***		<u>fs1</u>	
5-24	10×124/3			see.	(Alexander)	-	orts	
	<del></del>							
	<del></del>							
	***************************************							
								···········
17 C. C			Dadward Matrix 846				2l postiony DL	-Dora Lining Manuali
Type: C≅C Hydric Soil	oncentration, D≃Deple Indicators:	tion, RIVI=	Reduced Matrix, Ma	S=IVIasked	Sand Gra	ains.		=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surface	(S8) (LRF	R,		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)					ie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3) en Sulfide (A4)		Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R) ce (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed			, <b>L</b> )		Below Surface (S8) (LRR K, L)
	d Below Dark Surface	(A11)	Depleted Matrix					Surface (S9) (LRR K, L)
	ark Surface (A12) Mucky Mineral (S1)		Redox Dark Su Depleted Dark :					nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress		' '			lic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)						-	Material (F21)
	l Matrix (S6) rface (S7) (L.RR R, ML	DA 140B	Δ.					w Dark Surface (TF12) ain in Remarks)
Daik ou	nace (57) (LINIX IX, IIIL		'/				Other (Exp.	an in Nemarks)
	f hydrophytic vegetatio	n and we	tland hydrology mus	t be prese	ent, unless	disturbed	or problematic.	···
	Layer (if observed): からいを							
	•		<del></del>				Hydric Soil Pres	sent? Yes No_X_
Depth (inc Remarks:	cnes).			·			11,41.5 501.1 103	
rtemants.								
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1-	Marine P		month may remove such as 1 to be 100 to 100 feet					
•								

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: <u>Summers</u> Sist.	er Conter	City	Contains Till	t de S	Sampling Date:	4/25/12
Applicant/Owner: Nelio Sa	57 CEPS 164	CityA	Gounty. 700	State: 7 7	Sampling Date.	nt: CHAI
Investigator(s): Josh Will						
Landform (hillslope, terrace, etc.): <u>J</u>	ulslope	Local re	elief (concave, conv	vex, none): <u>C⊇∽√</u>	<u>&lt; ⊁</u> Slo	ppe (%): <u>3 - 3 -</u>
Subregion (LRR or MLRA):	<u> </u>	9/ 0 57 30	<u>'-03" ∧/</u> Lon	g: 12° 27' 20	18"L1 Datu	m: <u>~ 6183</u>
Soil Map Unit Name: Mench	ester			NWI class	ification: <i>\</i>	<del>7</del>
Are climatic / hydrologic conditions o	n the site typical for	this time of year?	Yes No	🔀 (If no, explain in	Remarks.)	
Are Vegetation, Soil,						No
Are Vegetation, Soil,				eded, explain any ansi		
SUMMARY OF FINDINGS -	Attach site ma	p showing sar	mpling point le	ocations, transec	ts, important f	eatures, etc.
Hydrophytic Vegetation Present?	Yes	No ×	is the Sampled		,	
Hydric Soil Present?	Yes	No X	within a Wetlar	nd? Yes	No_ <u></u>	_
Wetland Hydrology Present?	Yes	No 🔀	If yes, optional V	Wetland Site ID:		
Remarks: (Explain alternative proc	edures here or in a	separate report.)				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Ind	icators (miлimum o	f two required)
Primary Indicators (minimum of one	e is required; check	all that apply)		Surface S		
Surface Water (A1)		Vater-Stained Leav	es (B9)		Patterns (B10)	
High Water Table (A2)		quatic Fauna (B13			Lines (B16)	
Saturation (A3)		Marl Deposits (B15)		Dry-Seaso	on Water Table (C2	)
Water Marks (B1)	⊦	lydrogen Sulfide O	dor (C1)	Crayfish E	Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe	=		Visible on Aerial In	
Drift Deposits (B3)		resence of Reduce			r Stressed Plants (E	01)
Algal Mat or Crust (B4)	<del></del>	Recent Iron Reducti Thin Muck Surface (			nic Position (D2) quitard (D3)	
Iron Deposits (B5) Inundation Visible on Aerial Im		nin Muck Surrace ( Other (Explain in Re			graphic Relief (D4)	
Sparsely Vegetated Concave S		otiler (Explain in re	inano,		ral Test (D5)	
Field Observations:						
Surface Water Present? Yes	3 No <u>V</u>	Depth (inches):	<u> </u>			
Water Table Present? Yes	S No S No	Depth (inches):	7243			
Saturation Present? Yes	s NoX	Depth (inches):	721 We	etland Hydrology Pres	sent? Yes	No 1
(includes capillary fringe)  Describe Recorded Data (stream d	auge monitoring we	all aerial photos pr	evious inspections	s) if available:		
Describe Necorded Data (stream g.	auge, monitoring we	in, acriar priotos, pr	CVIOCO MOPOCROTIC	y, ii aranasis.		
Remarks:						
						-

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

Sampling Point: C(U(

Tree Stratum (Plot size:)	Absolute	Dominant Species?		Dominance Test worksheet:		***********
4				Number of Dominant Species	$\mathcal{O}$	
1.				That Are OBL, FACW, or FAC:	(	(A)
2.				Total Number of Dominant	.~;	
3				Species Across All Strata:	(	(B)
4				Percent of Dominant Species	7	
5				That Are OBL, FACW, or FAC:	(	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total Cov		OBL species x		
Sapling/Shrub Stratum (Plot size:)	·	70101 00		FACW species x		
A Colora City of the Colorada	90	Y	FACIL	FAC species x		
1. Elaengins amportation				FACU species x		
2. Pasa militalise				UPL species x		
3				Column Totals: (A		
4						
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica	itors:	···- ···
7				1 - Rapid Test for Hydrophy	tic Vegetation	
				2 - Dominance Test is >50%	-	
Hart Court (District	144_	= Total Cov	rei	3 - Prevalence Index is ≤3.0	)1	
Herb Stratum (Plot size:)  1				4 - Morphological Adaptation data in Remarks or on a	ns <sup>1</sup> (Provide suppo separate sheet)	orting
2				Problematic Hydrophytic Ve		)
3				Newson of head and a second		
4				'Indicators of hydric soil and wet be present, unless disturbed or p	iand hydrology mu problematic	ıst
5					······································	~ <del></del>
6				Definitions of Vegetation Strat	.a:	
{				Tree - Woody plants 3 in. (7.6 c		neter
7.				at breast height (DBH), regardle:	as of neight.	
8				Sapling/shrub - Woody plants I		+
9.				and greater than or equal to 3.28	3 ft (1 m) tall.	
10				Herb – All herbaceous (non-wood of size, and woody plants less the		less
11.				Manghavinga Allagadavinga		a
12.				Woody vines – All woody vines height.	greater than 3.28 i	πın
		= Total Cov	er			
Woody Vine Stratum (Plot size:)		x /	- A - C - C - C - C - C - C - C - C - C			
1. V. 186(436.2	_10_		THUL			
2.	**********	Market and the second				
3				Hydrophytic		
4				Vegetation	V	
	1 .	= Total Cov	01	Present? Yes	No X	
Remarks: (Include photo numbers here or on a separate s		- rotal oov				
The state of the s	11000.7					

		the depth n				or confirr	m the absence of indicators.)
Depth (inches)	Matrix Color (moist)	% (	Redo Color (moist)	x Features	Type <sup>†</sup>	_Loc²	
0-8	154×23/2						
8-18	170 to 2 1 to						
18-24	54rc 4/4						doct .
<u>'D - 21 - </u>	<u> </u>						¥7: 1,3
				***************************************			
			·				
				-	***************************************		
		<del></del>	***************************************				
¹Type: C=Co	ncentration, D=Deplet	ion, RM=Red	luced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil In			Dala atau Dala	2 .	/00 // DE		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (	AT) pedon (A2)		Polyvalue Belov MLRA 149B)		(S8) (LRF	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black His		-	Thin Dark Surfa		RR R, ML	RA 149B	
	Sulfide (A4)		Loamy Mucky M			<b>L</b> )	Dark Surface (S7) (LRR K, L)
	Layers (A5) Below Dark Surface (,		Loamy Gleyed I Depleted Matrix				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	k Surface (A12)		Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, R
	ıcky Mineral (S1)		Depleted Dark S	Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149
Sandy Gl	eyed Matrix (S4)		Redox Depress	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149E
	Matrix (S6)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)
	ace (S7) (LRR R, MLI	RA 149B)					Other (Explain in Remarks)
3Indicators of I	nydrophytic vegetation	and watland	l hudrology mus	ho propo	nt unlong	diaturbad	d or problematic
Restrictive La	yer (if observed):	and wedan	i nyarology mas	ne prese	nt, umess	disturbed	d of problematic.
Type:	NOVE						
Depth (inch	ies):						Hydric Soil Present? Yes No
Remarks:				~~~~			
							224 rule
							Course Cours
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				e Hall			
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	And the state of t	the section and the section of the s	and the second of the second of				

WEILAND DETERMINATION DATA FORM – Northcentral and Northeast Region
Project/Site: Sames Solar Center City/county: 70/land Sampling Date: 4/15/12
Applicant/Owner: Helio Sage UC State: C7 Sampling Point: C/WI Investigator(s): Josh Wilson FfO Section, Township, Range: Somer's
Investigator(s): Josh William FifO Section, Township, Range: Some S
Landform (hillslope, terrace, etc.): departs and Local relief (concave, convex, none): 60 ACC Slope (%): 1-3
Subregion (LRR or MLRA): <u>したさ                                   </u>
Soil Map Unit Name: NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? YesNoX (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:  Remarks: (Explain alternative procedures here or in a separate report.)
- Reinfield approx 3" less than normal
- Aren appears to be disturbed to the inst 10 types associat DPW years and landful
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
✓ Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fauna (B13)  Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes X No Depth (inches): 2
Surface Water Present? Yes X No Depth (inches): Z Water Table Present? Yes X No Depth (inches): £ Z **
Saturation Present? Yes X No Depth (inches): + 2. " Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available
Remarks:

**VEGETATION** – Use scientific names of plants. Sampling Point: C(VV) Absolute Dominant Indicator Tree Stratum (Plot size: 30') Dominance Test worksheet: % Cover Species? Status Number of Dominant Species 1. Partindes 20 1 FAC That Are OBL, FACW, or FAC: 2. Arabium 20 \_ PAC Total Number of Dominant 3. Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 90 = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_ Sapling/Shrub Stratum (Plot size: / ) FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ in some former to see UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 1511. \_?್ಲ\_ = Total Cover \_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> Herb Stratum (Plot size: \_\_\_\_\_) \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Tefficial 20 \_ FACUL <sup>1</sup>Indicators of hydric soil and wetland hydrology must T 124 Foi, a 10 N 03C be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 6. \_\_\_\_\_ Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in ॳऽ/॑४ <u> ीं</u> = Total Cover height. Woody Vine Stratum (Plot size: ) 3. Hydrophytic Vegetation Present? \_\_\_\_ = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix (inches) Color (moist) %			Redox Features  Color (moist) % Type¹ Loc²				Texture	Domarka
		-						Remarks
<u>U 78</u>	5754/3						31	
<u></u>			- I brianch bridge and a second	<del></del>				hard pan
<del></del>		· <del></del> -	·					
		·						
			····					
¹Type: C=Cc	ncentration D=Den	letion PM-0	Reduced Matrix MS	S=Mackad	Sand Gr	aine	<sup>2</sup> Location:	PL≍Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:								or Problematic Hydric Soils <sup>3</sup> :
Histosol		_	Polyvalue Belov	w Surface	(S8) (LRF	₹R,		uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)	)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)							ucky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)							erface (S7) (LRR K, L)	
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3)							ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)	
	rk Surface (A12)	· (/////	Redox Dark Su					nganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)							nt Floodplain Soils (F19) (MLRA 149B)	
Sandy Gleyed Matrix (S4) Redox Depressions (F8)							podic (TA6) (MLRA 144A, 145, 149B)	
Sandy Redox (S5)							rent Material (F21)	
Stripped Matrix (S6)							allow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)								
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
	ayer (if observed):							
Type: +A "Mon pan"							. *	
Depth (inc	hes): <u>/ 🏌 </u>	<del></del>				Hydric Soil F	Present? Yes No	
Remarks:								
						vil C	66 6	(1)
						/*\f	7	or and the second secon
			2.4	1014			and the second	and the second s
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