

WETLAND INSPECTION

June 2, 2021 APT Project No.: CT481500

Prepared For: C-TEC Solar

1 Griffin Road S., Suite 200 Bloomfield, CT 06002 Attn: Michael Morrison

Site Name: North Grosvenordale Solar

Site Address: 77 Pompeo Road, North Grosvenordale, Connecticut

Date of Investigation: 5/7/2021

Field Conditions: Weather: partly cloudy, mid 60's

Soil Moisture: dry to moist

Wetland/Watercourse Delineation Methodology¹:

⊠Connecticut Inland Wetlands and Watercourses

□Connecticut Tidal Wetlands□U.S. Army Corps of Engineers

Municipal Upland Review Area: Wetlands: 100 feet Watercourses: 200 feet

The wetlands inspection was performed by²:

Matthew Gustafson, Registered Soil Scientist

Enclosures: Wetland Delineation Field Forms & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.³ If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

¹ Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

² All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

³ APT has relied upon the accuracy of information provided by C-Tec Solar regarding the location and limits of the Study Area for the purposes of identifying wetlands and watercourses.

Attachments

- > Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

				_
Wetland I.D.:	Wetl	and 1		
Flag #'s:	WF 1-01 to 1-16			
Flag Location Method:	Site	Sketch ⊠	GP	S (sub-meter) located ⊠
WETLAND HYDROLOG	·V•			
WEILAND IIIDROLOG				
NONTIDAL ⊠				
Intermittently Flooded [Artificially Flooded □		Permanently Flooded □
Semipermanently Flood	ed □	Seasonally Flooded ⊠		Temporarily Flooded □
Permanently Saturated		Seasonally Saturated/seepage	\boxtimes	Seasonally Saturated/perched □
		its of a broad forested wetland ining to interior seasonally floode		tem with edge seep wetlands with
Sousonany Saturated So	iis di di	ining to interior seasonally neede	u u i	043.
TIDAL 🗆				
Subtidal □		Regularly Flooded □		Irregularly Flooded □
Irregularly Flooded □				
Comments: None				
WETLAND TYPE:				
SYSTEM:				
Estuarine		Riverine □	Тр	Palustrine ⊠
Lacustrine □		Marine □	+	
Comments: None				
CL ACC.				
CLASS: Emergent □		Scrub-shrub □	ТЕ	
Open Water □		Disturbed		Vet Meadow □
Comments: None				
Comments. None				
WATERCOURSE TYPE:				
Perennial □		Intermittent □	Т	īdal □
Watercourse Name: No	ne			

Comments: None

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

<u> </u>	
Vernal Pool Yes ⊠ No □ Potential □	Other □
Vernal Pool Habitat Type: 'Cryptic'	
Comments: Interior flooded depression contained depths of inurthe time of inspection. Approximately 50 spotted salamander etadpoles were observed. The vernal pool habitat consisted hummock/hollow topography and numerous attachment sites organic and detritus accumulation.	egg masses and numerous wood frog of diffuse shallow pools with high

SOILS:

OOILO:					
Are field identified soils consistent with NRCS mapped soils?	Yes ⊠	No □			

DOMINANT PLANTS:

Red Maple (Acer rubrum)	Japanese Barberry* (Berberis thunbergii)		
Skunk Cabbage (Symplocarpus foetidus)	Sweet Pepperbush (Clethera alnifolia)		
Winterberry (Ilex verticillata)	Canada Mayflower (Maianthemum candense)		
Marsh Marigold (Caltha palustris)	Cinnamon Fern (Osmunda cinnamomea)		
Sphagnum moss (Sphagnum spp.)			

^{*} denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. ("APT") understands that C-TEC Solar proposes to install a commercial scale photovoltaic ("PV") solar energy generating facility ("Facility") in mature hardwood uplands located at 77 Pompeo Road in North Grosvenordale, Connecticut. Access the proposed Facility would be provided from Pompeo Road. Three wetlands were identified within and in proximity to the proposed solar facility.

Wetland 1 is a south draining broad forested seep system dominated by a closed canopy red maple dominant overstory. This wetland contains interior pockets of seasonal flooding characterized by raised hummocks dominated by mosses/shrubs. Interior seasonally flooded areas ranging from 8 to 12-inches of inundation were observed at the time of inspection and found to support breeding by vernal pool indicator species. Eastern boundaries of this wetland consist of steep bedrock controlled slopes while western and northern extents of the resource are characterized by shallow sloping broad transitional seep areas.

Wetland Delineation Field Form

				
Wetland I.D.:	Wetland 2			
Flag #'s:	WF 2-01 to 2-10			
Flag Location Method:	Site S	Sketch ⊠	GP	S (sub-meter) located ⊠
WETLAND HYDROLOG	Y :			
NONTIDAL ⊠				
Intermittently Flooded]	Artificially Flooded □		Permanently Flooded □
Semipermanently Floode	ed 🗆	Seasonally Flooded □		Temporarily Flooded □
Permanently Saturated [Seasonally Saturated/seepage		Seasonally Saturated/perched ⊠
Comments: Wetland 2 consists of an isolated depressional wetland with a seasonally perched water table. Evidence of seasonal flooding is present in the form of water-stained leaves, however at the time of inspection very shallow flooding was observed.				
TIDAL		Danislands Flandad Fl		Innervitorio Elegado d
Subtidal		Regularly Flooded □		Irregularly Flooded □
Irregularly Flooded Comments: None				
WETLAND TYPE: SYSTEM:				
Estuarine		Riverine □	Р	alustrine 🗵
Lacustrine □		Marine □		
Comments: None				
CLASS:				
Emergent ⊠		Scrub-shrub ⊠	F	orested
Open Water □		Disturbed ⊠	٧	Vet Meadow □
Comments: Due to historic logging activities, overstory vegetation throughout Wetland 2 has been altered resulting in a dominance of emergent and scrub/shrub species. Due to periodic flooding and shallow soils to bedrock, vegetation throughout Wetland 2 is sparse.				
WATERCOURSE TYPE:				
Perennial □		Intermittent □	T	idal □
Watercourse Name: Non	ie			

Comments: None

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

DOMINANT PLANTS:							
Are field identified soils consistent with NRCS mapped soils?	Yes ⊠	No □					
SOILS:							
species was observed at the time of inspection.							
Comments: Inundation depths are too shallow and no breeding activity by vernal pool indicator							
Vernal Pool Habitat Type: None							
Vernal Pool Yes ☐ No ☒ Potential ☐	Other □						
	0.1.						

Highbush Blueberry (Vaccinium corymbosum)	Sphagnum moss (Sphagnum spp.)
Greenbrier (Smilax rotundifolia)	Red Maple (Acer rubrum)

^{*} denotes Connecticut Invasive Species Council invasive plant species

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Wetland 2 is an isolated depressional wetland with that has been recently logged with a majority of the overstory removed. There is a high hummock hollow microtopography with pockets of very shallow inundation less than 1 inch at the time of inspection. A majority of the wetland soils consist of shallow organic material overlying bedrock.

Wetland Delineation Field Form

		Wettaria Berneattori	icia i oi		
Wetland I.D.:	Wetland 3				
Flag #'s:	WF 3-01 to 3-06				
Flag Location Method:	Site	Sketch ⊠	GF	PS (sub-meter) located ⊠	
WETLAND HYDROLOG	Y:		,		
NONTIDAL ⊠					
Intermittently Flooded [Artificially Flooded □		Permanently Flooded □	
Semipermanently Flood ⊠	ed	Seasonally Flooded □		Temporarily Flooded □	
Permanently Saturated		Seasonally Saturated/seep	age ⊠	Seasonally Saturated/perched	
Comments: Wetland 3 is a headwater hillside seep system with seasonally saturated surfaces draining north to a depressional semi-permanently flooded area. Depths of inundation ranged from 6 inches to 2 feet or greater at the time of inspection.					
TIDAL 🗆					
Subtidal		Regularly Flooded □		Irregularly Flooded □	
Irregularly Flooded ☐ Comments: None					
WETLAND TYPE: SYSTEM:					
Estuarine □		Riverine □	F	Palustrine ⊠	
Lacustrine □		Marine □			
Comments: None			•		
CLASS:					
Emergent ⊠		Scrub-shrub ⊠	F	Forested \square	
Open Water □		Disturbed ⊠	1	Wet Meadow □	
Comments: As a result of edge clearing activities along the west side of the wetland which have resulted in some impact to this resource, portions of Wetland 3 are dominated by transitional scrub/shrub and emergent communities. Generally, the wetland is dominated by mature hardwood forest, with margins of the semi-permanently flooded areas dominated by emergent vegetation.					
WATERCOURSE TYPE:					
Perennial □		Intermittent □	7	Γidal □	
Watercourse Name: No	ne		'		

Comments: None

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

of Edine Agoniio Imbi ini.	
Vernal Pool Yes ⊠ No □ Potential □	Other □
Vernal Pool Habitat Type: 'Cryptic'	
Comments: The interior semi-permanently flooded depressional surveyed for breeding activity by vernal pool indicator species conditions and dark/tannic water at the time of inspection, compossible. However, dip netting revealed several wood frog larv were assumed to be present.	. Due to depths of water, poor light plete visual survey of the pool was not

SOILS:

00120.					
Are field identified soils consistent with NRCS mapped soils?	Yes ⊠	No □			

DOMINANT PLANTS:

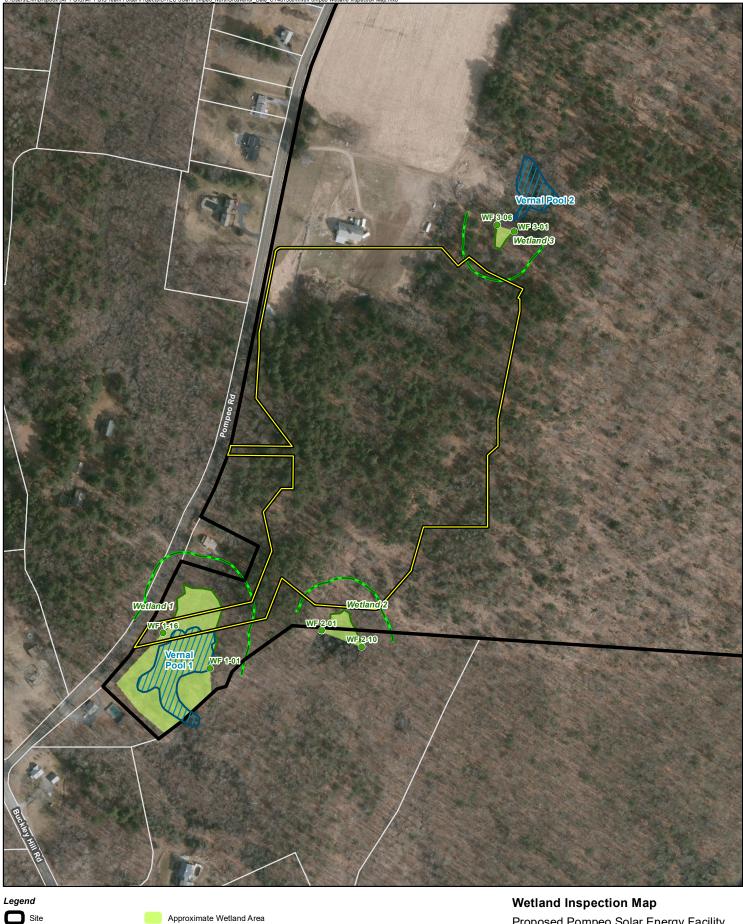
Red Maple (Acer rubrum)	Greenbrier (Smilax rotundifolia)		
Tussock Sedge (Carex stricta)	Multiflora Rose* (Rosa multiflora)		
Highbush Blueberry (Vaccinium corymbosum)	Cinnamon Fern (Osmunda cinnamomea)		

^{*} denotes Connecticut Invasive Species Council invasive plant species

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Wetland 3 consists of a headwater seep system which generally drains north. Topography flattens within the wetland to the north leading to a large semi-permanently flooded depression in the interior, surrounded by the seep system. Overstory vegetation is dominated by mature hardwood forest with a dense scrub/shrub understory. This resource continues to drain north as a broader hillside seep system extending beyond the limits of the investigation. The west side of this wetland has been disturbed by clearing activities and storage/deposition of materials.





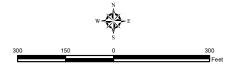
Project Area Wetland Flag



Delineated Wetland Boundary Map Notes; Base Map Source: 2019 CT Aerial Imagery (CTECO) Map Scale:1 inch = 300 feet Map Date: June 2021

Vernal Pool

Approximate Parcel Boundary



Proposed Pompeo Solar Energy Facility 77 Pompeo Road North Grosvenor Dale, Connecticut

