

APPENDIX 14-A

Wetland and Stream Delineation Reports



Wetland and Waterbody Delineation Report Somerset Solar Project Town of Somerset, Niagara County, New York



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PRESENTED TO	PRESENTED BY

Contents

1.0	INTRO	DDUCTION	1
1.1	Gen	eral Information	1
2.0	SITE I	DESCRIPTION	2
2.1	Gen	neral Environmental Setting and Current Land Use	2
2.	.1.1	Physiography, Geology, and Geomorphology	2
2.	.1.2	Hydrology	2
2.	.1.3	Soils	2
2.	.1.4	Vegetation	3
2.	.1.5	Mapped Wetlands and Streams	4
3.0	METH	IODS	5
3.1	Des	ktop Review	5
3.	.1.1	National Wetland Inventory	5
3.	.1.2	NYSDEC Freshwater Wetlands and Streams	5
3.	.1.3	National Hydrography Dataset	5
3.	.1.4	Soil Survey	6
3.	.1.5	Aerial Photography	6
3.2	Fiel	d Survey	6
3.	.2.1	Wetlands	7
3.	.2.2	Waterbodies	9
3.3	Pre	vious Investigations	10
4.0	RESU	LTS	11
4.1	Deli	ineated Wetlands	11
4.2	Deli	ineated Waterbodies	22
5.0	REFE	RENCES	30

FIGURES

Figure 1.	Topograpnic Map
Figure 2.	Aerial Map
Figure 3.	FEMA Flood Map
Figure 4.	NRCS Soil Units and Hydric Rating Map
Figure 5.	Mapped Aquatic Features
Figure 6.	Approved Solid Waste Disposal Areas
Figure 7.	Stantec Wetland Delineation Findings within Study Area
Figure 8.	Surveyed Wetlands and Waterbodies Map

APPENDICES

Current List of Property Owners and Mailing Addresses

Data Forms

Appendix A Appendix B Appendix C Select Site Photographs

1.0 INTRODUCTION

AES Clean Energy Development, LLC (AES) is proposing to redevelop portions of the inactive Somerset coal-fired power plant (Somerset Station) and adjacent parcels into a 140 - 200 megawatt (MW) alternating current (AC) solar energy generation facility (the Project). The proposed Project is located at 7725 Lake Road within the Town of Somerset, Niagara County, New York (Figure 1). The Project Area is comprised of several tax parcels making up approximately 1,410 acres. The actual Facility Area will be smaller than the total Project Area.

At AES's request, Tetra Tech performed a wetland and waterbody survey for the Project between May 3 and May 13, 2021. During the survey, field conditions were typical for early May in New York.

This wetland delineation report has been prepared in accordance with the Office of Renewable Energy Siting (ORES) *Draft Checklist of Necessary Information for Wetland and Stream Delineation Reports*.

1.1 General Information

This section provides the requested information from the *Draft Checklist of Necessary Information for Wetland and Stream Delineation Reports* regarding general information for the wetland analysis.

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Current Property Owner's Name and Mailing Addresses:

The current list of properties owners and mailing addresses is provided in Appendix A.

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2.0 SITE DESCRIPTION

The Project is located on a collection of properties owned by Beowulf LLC that would be leased to AES for the purposes of operating the renewable energy facility. The Project is located within the Town of Somerset, which is situated just south of Lake Ontario and approximately 13 miles northeast of the City of Lockport (Figure 1). The Project Area is comprised of several tax parcels making up approximately 1,410 acres. The actual solar array area will be smaller than the total Project Area.

2.1 General Environmental Setting and Current Land Use

The Project is located on portions of an inactive coal-fired power plant and adjacent parcels. Within the developed portion of the Project located north of Lake Road, land use consists primarily of open fields, shrubland, and infrastructure including a landfill and railroad. Land cover is a mixture of agricultural fields (row crops) and forested lands (mesic hardwoods) on adjacent parcels. Aerial photography is found in Figure 2.

2.1.1 Physiography, Geology, and Geomorphology

The Project is located within the Central Lowland physiographic province which is a largely level region subject to repeated Pleistocene glaciations (NPS 2018). The Project is located on relatively flat, gently sloping land ranging in elevation from approximately 250 feet (ft) along the northern boundary (Lake Ontario) to approximately 300 ft moving south (Figure 1). The surface is underlain by Queenston Shale (USGS 2005).

2.1.2 Hydrology

The majority of the Project is located within the Oak Orchard-Twelvemile watershed (HUC8: 04130001), which is approximately 1,025 square miles total. The northernmost portions of the Project Area are within the Lake Ontario watershed (HUC8: 04280002), which is approximately 7,474 square miles in size. The watershed sub-basin area receives an average annual precipitation of 32 to 34 inches (USDA NRCS 2010).

The Project Area contains one named river system, Fish Creek, which enters from the southwest and travels northeast. Fish Creek and other unnamed tributaries within the Project Area drain north into Lake Ontario. According to the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, the entirety of the Project Area is located within Zone X: *area of minimal flood hazard* (FEMA 2021). A FEMA Flood Map is included as Figure 3.

2.1.3 Soils

The Project Area consists of many mapped soil units, with Collamer silt loam (29.9 percent), Niagara silt loam (27.4 percent), and Rhinebeck silt loam (16.3 percent) soil units being the dominant soils. These predominant mapped soils form on lake plains. The Collamer soil series is moderately well drained with a water table depth at 18 to 24 inches. The Niagara and Rhinebeck series are somewhat poorly drained with a water table depth at 6 to 18 inches. A total of 52.4 acres (3.7 percent) of soils in the Project Area are rated as hydric (USDA NRCS 2019).

Table 1 below provides a complete list of soil series mapped by the United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) in the Project Area. Figure 4 depicts the distribution of soil series and their hydric rating within the Project Area.

Table 1: USDA NRCS Mapped Soil Units in the Project Area

Map Unit Symbol	Map Unit Name	Hydric Rating	Acres in Project Area	Percent of Project Area
ApA	Appleton silt loam, 0 to 3 percent slopes	5	14.9	1.1%
ArB	Arkport very fine sandy loam, 0 to 6 percent slopes	0	20.6	1.5%
ArC	Arkport very fine sandy loam, 6 to 12 percent slopes	0	10.1	0.7%
Ca	Canandaigua silt loam	86	4.1	0.3%
CcB	Cayuga and Cazenovia silt loams, 2 to 6 percent slopes	0	5.2	0.4%
CmA	Claverack loamy fine sand, 0 to 2 percent slopes	0	41.7	2.9%
CmB	Claverack loamy fine sand, 2 to 6 percent slopes	0	33.4	2.4%
CnA	Collamer silt loam, 0 to 2 percent slopes	0	121.1	8.6%
CnB	Collamer silt loam, 2 to 6 percent slopes	4	300.7	21.3%
CoB	Colonie loamy fine sand, 0 to 6 percent slopes	0	3.2	0.2%
Cs	Cosad fine sandy loam	11	9.5	0.7%
DuB	Dunkirk silt loam, 2 to 6 percent slopes	0	16.8	1.2%
DuC3	Dunkirk silt loam, 6 to 12 percent slopes, eroded	0	22.1	1.6%
DvD3	Dunkirk and Arkport soils, 12 to 20 percent slopes, eroded	0	3.5	0.3%
ElA	Elnora loamy fine sand, 0 to 2 percent slopes	0	1.9	0.1%
ElB	Elnora loamy fine sand, 2 to 6 percent slopes	0	6.1	0.4%
Fr	Fredon gravelly loam	53	2.6	0.2%
GnA	Galen very fine sandy loam, 0 to 2 percent slopes	0	7.9	0.6%
GnB	Galen very fine sandy loam, 2 to 6 percent slopes	0	5.6	0.4%
На	Hamlin silt loam	3	26.7	1.9%
HgB	Hilton gravelly loam, 3 to 8 percent slopes	0	7.7	0.5%
HlA	Hilton silt loam, 0 to 3 percent slopes	0	6.4	0.5%
HlB	Hilton silt loam, 3 to 8 percent slopes	0	18.4	1.3%
HsB	Hudson silt loam, 2 to 6 percent slopes	0	33.1	2.4%
Ma	Madalin silt loam, 0 to 3 percent slopes	93	12.9	0.9%
Md	Madalin silt loam, loamy subsoil variant	82	13.0	0.9%
Mn	Minoa very fine sandy loam	11	8.5	0.6%
NaA	Niagara silt loam, 0 to 2 percent slopes	4	355.5	25.2%
NaB	Niagara silt loam, 2 to 6 percent slopes	4	31.3	2.2%
OvA	Ovid silt loam, 0 to 2 percent slopes	4	8.8	0.6%
OvB	Ovid silt loam, 2 to 6 percent slopes	2	2.1	0.1%
RbA	Rhinebeck silt loam, 0 to 2 percent slopes	8	208.1	14.7%
RbB	Rhinebeck silt loam, 2 to 6 percent slopes	8	22.6	1.6%
W	Water	0	4.4	0.3%
Wa	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	90	19.8	1.4%
TOTAL			1,410.2	100%

2.1.4 Vegetation

The Project consists of a mixture of agricultural fields and undeveloped forest and shrubland. The active row cropping was primarily previously harvested corn (*Zea mays*). Uplands were dominated by sugar maple (*Acer saccharum*), American beech (*Fagus grandifolia*), northern red oak (*Quercus rubra*), and Morrow's honeysuckle (*Lonicera morrowii*). Wetlands onsite were palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO). Dominant vegetation included green ash (*Fraxinus pensylvanica*), American elm (*Ulmus americana*), red maple (*Acer rubrum*), silver maple

(Acer saccharinum), eastern cottonwood (Populus deltoides), box elder (Acer negundo), silky dogwood (Cornus amomum), red osier dogwood (Cornus sericea), reed canary grass (Phalaris arundinacea), and common reed (Phragmites australis).

2.1.5 Mapped Wetlands and Streams

Federal and state data regarding mapped wetlands were reviewed for the Project Area (Figure 5). Data from the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) identified 47 separate features within or partially within the Project Area, including freshwater forested/shrub wetlands, freshwater emergent wetlands, freshwater ponds, lakes, and riverine types. These features occupy approximately 93 acres of the Project Area. No mapped New York State Department of Environmental Conservation (NYSDEC)-regulated freshwater wetlands were identified within the Project Area.

U.S. Geological Service (USGS) National Hydrography Dataset (NHD) streams were identified in the same locations as the NWI mapped riverine wetlands described above. Approximately 42,120 linear feet of NHD mapped streams occurs within the Project Area.

3.0 METHODS

3.1 Desktop Review

Prior to conducting field surveys, Tetra Tech reviewed high-resolution aerial photography and Geographic Information System (GIS) data including USFWS NWI, NYSDEC Freshwater Wetlands, NHD, NRCS Web Soil Survey, and USGS topographic maps. These resources were used both prior to and during field surveys to identify potential wetland or waterbody areas.

The Project Area was evaluated using the above desktop resources to determine the potential presence of wetlands and waterbodies (streams and ponds). Data was also collected to document a lack of water features where desktop data, such as NWI, indicated water features may be present but area not indicated in recent aerial photography. These were referred to as non-water points.

The following GIS data sources were reviewed to supplement the wetland and waterbody field surveys.

3.1.1 National Wetland Inventory

NWI data were overlaid on high-resolution aerial imagery and reviewed in conjunction with soil surveys and topographic maps. Ground conditions are subject to change and because the criteria used to identify wetlands for mapping purposes may have been different than the currently required by the U.S. Army Corps of Engineers (USACE), wetland maps were only used as a guide to aide in identifying potential wetlands. This data was provided to the field crews to guide fieldwork. NWI mapping is included in Figure 5.

3.1.2 NYSDEC Freshwater Wetlands and Streams

The NYSDEC regulates mapped Freshwater Wetlands and wetlands of 12.4 acres or greater in size. A review of the NYSDEC Environmental Resource Mapper (ERM) was conducted to identify Freshwater Wetlands and Streams located within the Project Area.

The NYSDEC classifies streams under the following designations:

- Class AA or A Assigned to waters used as drinking water;
- Class B Waters used for contact recreation such as swimming, but not drinking water;
- Class C Waters supporting fisheries but not suitable for contact activities; and
- Class D Lowest class of waters.

Waters designated as C or higher can also be designated as T, may support trout populations, or TS, may support trout spawning. NYSDEC regulates streams with a designation of C(T) or higher. NYSDEC mapping is included in Figure 5.

3.1.3 National Hydrography Dataset

The NHD depicts surface waters across the United States, including some, but not all, rivers, streams, canals, lakes, and ponds. The data is provided at a scale of 1:24,000. Not all water features are shown at this scale and those that are, provide only a moderate level of detail. The NHD layer includes data for perennial, intermittent, and ephemeral streams as well as artificial paths, canal/ditch, coastline, connector, pipeline, and underground conduit. Table 2 below provides a description of the NHD classifications. NHD mapping is included in Figure 5.

Table 2: Description of NHD Water Classifications

NHD Classification	NHD Waterbody Classification Description
Stream/River	A body of flowing water.
Perennial Stream	Stream that contains water throughout the year, except for
	infrequent periods of severe drought.
Intermittent Stream	Stream that contains water for only part of the year, but
	more than just after rainstorms and at snowmelt.
Ephemeral Stream	Stream that contains water only during or after a local
	rainstorm or heavy snowmelt.
Underground Conduit	Subsurface drainage channels formed from the dissolution
	of soluble rocks in Karst terrain or in terrain similar to
	karst but formed in non-soluble rocks, as by melting of
	permafrost or ground ice or collapse after mining.
Artificial Path	An abstraction to facilitate hydrologic modelling through
	open water bodies to act as a surrogate for lakes and other
	water bodies.
Canal/Ditch	An artificial open waterway constructed to transport water,
	to irrigate or drain land, to connect two or more bodies of
	water, or to serve as a waterway for watercraft.
Connector	A known, but nonspecific, connection between two
	nonadjacent network segments.

3.1.4 Soil Survey

The NRCS Web Soil Survey, called Soil Survey Geographic Database (SSRUGO), was used to obtain soil survey information for Niagara County. The information was the most current county soil information available electronically. Existing soils maps were used as a guide to identify locations of potential hydric soils. Field investigation was required to verify the presence of hydric soils, particularly given the disturbed conditions present throughout much of the Project Area. Figure 4 presents the soil series mapped in the Project Area.

3.1.5 Aerial Photography

High resolution aerial photography from September 2018 and several years of older imagery was reviewed to assist in evaluating the Project Area for possible wetland signatures and recent disturbances on the landscape that could influence the presence and extent of wetlands. Possible visual signatures include, but are not limited to, surface water, varying color changes in vegetation, and isolated areas within farmland that are not successfully farmed due to poor drainage.

3.2 Field Survey

Wetland delineation field surveys for the Project Area were conducted during one field mobilization that occurred from May 3 to May 13, 2021. Wetland boundaries, waterbody thalweg or banks, data collection points, open waterbody boundaries, and non-water points were surveyed using an iPad connected to an Arrow or Trimble global positioning system (GPS) unit. The field data collection settings within the GPS units used available satellites to capture location data. Note that while GPS data collected during the survey provides reasonably accurate spatial information regarding the wetlands, open waterbodies, and non-water points delineated (typically one-meter accuracy with sufficient satellite reception) it does not constitute the same accuracy as a professional land survey.

3.2.1 Wetlands

Wetlands were delineated using the method described in the USACE 1987 Manual (USACE 1987, along with the Northcentral Northeast Regional Supplement (Version 2.0) (USACE 2012). Wetlands were also delineated consistent with the 2015 Clean Water Rule (USACE 2015). The wetland boundaries were delineated using the routine on-site determination method described in the Regional Supplement and the National Wetland Plant List 2018 (NWPL) (Lichvar et al. 2012) for the determination of the plant indicator status and the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin 1979) to classify wetlands. According to the USACE 1987 Wetland Manual, three criteria or parameters are considered during wetland delineations; for an area to be considered a wetland, it must have:

- A predominance of hydrophytic vegetation,
- Indications of wetland hydrology, and
- The presence of hydric soils under normal circumstances (i.e., where naturally problematic conditions or disturbances are absent).

Wetland datasheets were completed at sample points within each wetland community type (i.e., Cowardin classification) making up the wetland or wetland complex, along with a minimum of one corresponding upland community sample point. Wetland datasheets are included in Appendix B. Representative photographs of on-site wetlands are included in Appendix C.

3.2.1.1 Hydrophytic Vegetation

The 1987 Manual and NWPL define the wetland indicator status of plants as follows:

<u>Obligate Wetland Plants (OBL)</u>: almost always occur in wetlands (estimated probability >99 percent) in wetlands under natural conditions. With few exceptions, these plants (herbaceous or woody) are found in standing water or seasonally saturated soils (14 or more consecutive days) near the surface. These plants are of four types: submerged, floating, floating-leaved, and emergent.

<u>Facultative Wetland Plants (FACW)</u>: usually occur in wetlands (estimated probability >67 percent to 99 percent) but may occur in non-wetlands. These plants predominantly occur with hydric soils, often in geomorphic settings where water saturates the soils or floods the soil surface at least seasonally.

<u>Facultative Plants (FAC)</u>: occur in wetlands and uplands (estimated probability 33 percent to 99 percent within wetlands). These plants can grow in hydric, mesic, or xeric habitats. The occurrence of these plants in different habitats represents responses to a variety of environmental variables other than just hydrology, such as shade tolerance, soil pH and elevation. They have a wide tolerance of soil moisture conditions.

<u>Facultative Upland Plants (FACU)</u>: usually occur in uplands, but many occur in wetlands (estimated probability 1 percent to <33 percent in wetlands). These plants predominantly occur on drier or more mesic sites in geomorphic settings where water rarely saturates the soils or floods the soil surface seasonally.

<u>Upland Plants (UPL)</u>: almost never occur in wetlands (estimated probability <1 percent). These plants occupy mesic to xeric upland habitats. They almost never occur in standing water or saturated soils. Typical growth forms include herbaceous, shrubs, woody vines, and trees.

Dominant vegetation was assessed for each stratum present (tree, sapling/shrub, woody vine, and herbaceous) at a sample point location. In most cases, plant dominance was determined using the USACE's "50/20 Rule" in which species from each stratum that individually or collectively make up more than 50 percent of the total cover in each stratum, plus any other species that account for at least 20 percent of the total cover in the stratum are determined to be dominant species. The hydrophytic vegetation criterion is met when greater than 50 percent of the dominant plant species are classified as OBL, FACW, or FAC. Vegetation information was recorded on the appropriate USACE data forms.

3.2.1.2 Wetland Hydrology

Hydrology is influenced by many variables, including seasonal and long-term rainfall patterns, local geology, topography, soil type, local water table conditions, and drainage. According to the 1987 Manual and Regional Supplements, wetland hydrology is present if 14 or more consecutive days of inundation or water saturation within 12 inches of the soil surface occurs during the growing season at a minimum frequency of 5 in 10 years.

Indicators of wetland hydrology provide evidence that a site has a persistent wetland hydrologic regime. The Regional Supplement provides a list of hydrology indicators that include primary and secondary indicators, which are grouped as:

- Observation of Surface Water or Saturated Soils
- Evidence of Recent Inundation
- Evidence of Current and Recent Soil Saturation
- Evidence of Other Site Conditions or Data

One primary indicator or two secondary indicators are required to confirm that wetland hydrology is present or occurs at some time during the growing season. Field observations of hydrology were made at each vegetation community sample point. Examples of key indicators observed include presence of water above the ground surface, high water table within the hole dug for soil observations, saturated soil in the upper portion of the soil profile, water-stained leaves, drainage patterns as evidence of water presence, and the geomorphic position of the vegetation community and sample point location. Hydrology information was recorded on the appropriate USACE datasheets.

3.2.1.3 Hydric Soil

Hydric soils are characterized by specific morphological characteristics developed in the soil profile over time due to reduction of iron, manganese, and sulfur under saturated and anaerobic conditions. The 1987 Manual defines hydric soils as soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part. The hydric soil indicators described in the Regional Supplement are a subset of hydric soil indicators described in *Field Indicators of Hydric Soils in the United States, Version* 8.2 (USDA, NRCS 2018). The *Munsell Book of Soil Color Charts* (2014) was used to determine soil matrix and mottle colors (redoximorphic features) and record soil profile descriptions. The soils were observed and documented at representative sample point locations in both wetland communities and adjacent upland communities to help establish the wetland boundary. Soil profile descriptions were recorded on the appropriate USACE datasheets.

3.2.1.4 Cowardin Classification

The Cowardin Classification was developed in 1979 to classify a variety of wetland habitats and divides wetlands into five systems: marine, estuarine, riverine, lacustrine, and palustrine. These represent the

five major landscape settings. The classification system further divides wetland communities into systems and classes. This survey was conducted in inland wetlands, and descriptions of the common Cowardin Classification inland community types are described in the bullets below.

- <u>Palustrine System Emergent Wetland Class (PEM)</u>: A PEM wetland is defined as a non-tidal wetland characterized by erect, rooted, hydrophytic herbaceous species. These wetland habitats are often dominated by perennial plants, where the vegetation is present for the majority of the growing season (Cowardin, 1979).
- <u>Palustrine System Scrub-Shrub Wetland Class (PSS)</u>: A PSS wetland is defined as a non-tidal wetland consisting of woody vegetation that is less than 20 feet tall, including shrubs, young trees, and stunted trees or shrubs (Cowardin, 1979).
- <u>Palustrine Forested Wetland Class (PFO)</u>: A PFO wetland is defined as a non-tidal wetland characterized by dominant woody vegetation that is greater than 20 feet tall, with an understory of small trees and shrubs, as well as an herbaceous layer (Cowardin, 1979).

Each wetland delineated was assigned a Cowardin class. For wetland complexes, or wetlands that are comprised of more than one wetland plant community (i.e., Cowardin class) a sample point was established, and observations recorded to document each community. Unique wetland IDs and separate polygons were established based on the wetland community present within the complex. The field crews collected wetland information for PEM, PSS, and PFO wetlands.

3.2.2 Waterbodies

Waterbodies documented during the field survey were assigned a unique ID according to their flow and hydrology regimes: linear or flowing waterbodies, such as streams and rivers were assigned a unique ID starting with an "s"; non-flowing open waterbodies, such as ponds and lakes, were assigned a unique ID starting with an "o." Linear or flowing waterbodies were identified as landscape features with a channel that include a bed and a bank in a concave landscape position where water flow has resulted in a feature that possesses an ordinary high water mark (OHWM). Waterbodies do not include erosional features, such as gullies, rills, and ephemeral streams that do not have a bed and banks and OHWM, in accordance with the USACE Regulatory Guidance Letter regarding Ordinary High-Water Mark Identification (USACE 2005).

Based on evidence of flow regime at the time of survey, linear waterbodies were attributed a flow regime according to the definitions provided by the USACE for the Nationwide Permit Program in Title 33 Code of Federal Regulations (CFR) Part 330 (Federal Register, 1993). Similarly, non-flowing, open waterbody features were assigned a Cowardin hydrology regime based on observations recorded at the time of survey. Definitions of these flow and hydrology regimes are included below, as defined in 33 CFR 330.

- <u>Perennial Stream</u>: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year, and groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
- <u>Intermittent Stream</u>: An intermittent stream has flowing water during most times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water, and runoff from rainfall is a supplemental source of water for stream flow.
- Ephemeral Stream: An ephemeral stream has flowing water only during and for a short duration after precipitation events. Ephemeral stream beds are located above the water table year-round, therefore,

groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Non-flowing or open waterbodies were documented based on the evidence of inundation/saturation at the time of surveys, utilizing one of four categories based on the Cowardin classification including the following:

- Non-flowing: Water covers the land surface throughout the year in all years.
- Semi-Non-flowing: Surface water persists throughout the growing season in most years. When surface water is absent, the water table is usually at or very near the land surface.
- Seasonally flooded: Surface water is present for extended periods especially early in the growing season but is absent by the end of the season in most years. When surface water is absent, the water table is often near the land surface.
- Temporarily flooded: Surface water is present for brief periods during the growing season, but the water table usually lies well below the soil surface for most of the season.

3.3 Previous Investigations

The Project Area was subject to substantial natural resource evaluations in the 1970's and early 1983 resulting in the New York State Department of Public Service (NYSDPS) granting a license to operate the Somerset Station primarily on portions of the Project Area located north of Lake Road in 1983. The NYSDPS license included approval to use portions of the Somerset Station for three solid waste landfills for the disposal of coal combustion residue and related solid waste. The solid waste landfills are known as solid waste disposal area number one (SWDA-1), solid waste disposal area number two (SWDA-2), and solid waste disposal area number three (SWDA-3). The locations of SWDA-1, SWDA-2 and SWDA-3 are shown on Figure 6. SWDA-1 is located immediately north of the Project Area and it is currently capped with a final cover system pursuant to the NYSDPS license and applicable NYSDEC regulations. SWDA-2 continues to accept Somerset Station generated solid waste and it is located within the Project Area and south of SWDA-1. The SWDA-2 did not extend to the full area authorized by NYSDPS as noted in Figure 6. SWDA-2 will be capped with a final cover system in accordance with the NYSDPS license and the applicable NYSDEC regulations prior to development of this portion of the Project Area as a solar energy generating facility. SWDA-3 is located west of SWDA-2 and this area was not utilized for disposal of solid waste. Since the NYSDPS previously approved solid waste disposal for the areas designated as SWDA-1, SWDA-2 and SWDA-3 as part of a public licensing effort, it is our opinion that these areas should not be under the jurisdiction of the ORES as a state regulated wetland.

In 2003, Stantec Consulting Services, Inc. of Lancaster, New York conducted a routine wetland delineation for selected locations near Fish Creek and beyond the solid waste disposal areas noted above for AES Somerset LLC. This delineation identified five small wetlands within the survey area with a total wetland area of approximately 0.40 acres The Stantec wetland delineation map findings associated with the activities completed within the Project Area are included as Figure 7.

4.0 RESULTS

The following section summarizes wetland and waterbody delineations conducted in the Project Area from May 3 to May 13, 2021. Field conditions were typical for late spring in northern New York. With late April being the start of the growing season, vegetation was still in the early stages of growth, making some species identification challenging. Nevertheless, it is Tetra Tech's best professional judgment that the growing state of vegetation did not substantially affect the results of the delineation. This judgement is based on observations during other natural resources evaluations conducted within the Project Area by field biologists such as a breeding bird survey.

4.1 Delineated Wetlands

Tetra Tech identified 40 wetlands (267.43 acres) within the Project Area (Figure 8). Data sheets can be found in Appendix B, and photographs are provided in Appendix C. Table 3 summarizes the delineated wetlands and brief descriptions are provided below. There are no mapped NYSDEC regulated freshwater wetlands in the Project Area or adjacent properties. The closest state mapped wetlands are approximately 1.4 miles southeast (ID: BA-21 and BA-22, Class 3) and have low potential hydrologic connectivity to onsite wetlands.

Wetland WA-1 – Wetland WA-1 was an inundated area of stream SA-1 located in the northeastern portion of the Project Area, adjacent to an area currently used for growing corn. It was located entirely within the Project Area and was 0.3 acres in size. The source of wetland hydrology appeared mostly to be collected runoff from surrounding fields. Dominant vegetation was pussy willow (*Salix discolor*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued throughout before hitting refusal at 8 inches. This wetland was isolated with no apparent hydrologic connection to a Water of the U.S. (WOTUS); therefore it should not be afforded jurisdiction from the USACE. Wetland WA-1 was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, therefore it should not be under jurisdiction of the State.

Wetland WA-2 – Wetland WA-2 was 8.62 acres in size, located within the eastern portion of the Project Area. The source of wetland hydrology was primarily Fish Creek, which ran through the wetland, and surface runoff. Dominant vegetation included green ash, eastern cottonwood in the tree layer, silky dogwood in the shrub layer, and reed canary grass, sensitive fern (*Onoclea sensibilis*) and jewelweed (*Impatiens capensis*) in the herb layer. Hydric soil conditions met the requirements of a depleted matrix starting at 8 inches and continued for 20 inches. Please note that this wetland area is significantly larger than previously delineated in 2003 and that the hydric soil conditions has changed in the past 18 years.

This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, Fish Creek. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-3A — Wetland WA-3A was 63.18 acres in size, located within the eastern portion of the Project Area. It was composed of several habitat types including forested swamps, successional shrub swamp, and emergent wetlands. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included green ash, eastern cottonwood in the tree layer, silky dogwood and grey dogwood (*Cornus racemosa*) in the shrub layer, and reed canary grass in the herb layer. Hydric soil conditions met the requirements of a depleted matrix starting at 10 inches and continued for 20 inches. Wetland WA-3A was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, Fish Creek. WA-3A was classified as State jurisdictional as it was over 12.4 acres in size.

Wetland WA-3B — Wetland WA-3B was 14.81 acres in size and identified within the NYSDPS approved area solid waste disposal pursuant to the Somerset Station 1983 license. It is composed of several habitat types including forested and emergent wetland. The source hydrology was primarily surface runoff. Dominant vegetation included green ash, pussy willow, and eastern cottonwood in the tree layer, grey dogwood and honeysuckle in the shrub layer, and reed canary grass in the herb layer. Wetland WA-3B was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, Fish Creek.

Wetland WA-4 – Wetland WA-4 was 0.01 acres in size, located within the eastern portion of the Project Area by Hartland Road. It was a small drainage collection that was sourced primarily by surface runoff. The dominant vegetation was fowl manna grass (*Glyceria striata*). Hydric soil conditions met the requirements of a depleted matrix starting at 3 inches and continued throughout to 8 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-5 – Wetland WA-5 was 22.23 acres in size, located within the eastern portion of the Project Area. The source of hydrology was primarily surface runoff. Dominant vegetation included green ash, eastern cottonwood, and red maple. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches and a hydrogen sulfide odor present. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS (an unnamed tributary to Fish Creek) and classified as State-jurisdictional as it was over 12.4 acres in size.

Wetland WA-6 – Wetland WA-6 was 0.51 acres in size, located within an open field in the southern portion of the Project Area. The source of hydrology was primarily surface runoff. Dominant vegetation included celery-leaved buttercup (*Ranunculus sceleratus*) and yellow rocketcress (*Barbarea vulgaris*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-7 – Wetland WA-7 was a 28.61-acre palustrine forested wetland located on the west side of the north-south railroad located centrally in the Project Area. The wetland was an extension of an NWI-mapped wetland located at the southern end of the delineated feature. The wetland connected to wetland WB-19 through culverts running through the railroad track and potentially to wetland W-13 to the west. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included pussy willow, eastern cottonwood, box elder, timothy grass (*Phleum pratense*), and reed canary grass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS (Fish Creek and an unnamed tributary) and was classified as State -jurisdictional as it was over 12.4 acres in size.

Wetland WA-8 – Wetland WA-8 was a 2.33-acre vegetated stormwater sedimentation basin that was designed pursuant to the existing license with the NYSDPS. The engineered drainage basin is located next to the active solid waste disposal area (SWDA-2) located within the Project Area. During the time of the survey water levels were low allowing for the propagation of hydrophytic vegetation. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included common reed and reed canary grass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches

and continued throughout before hitting refusal at 14 inches. This wetland was isolated and temporarily vegetated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-9 – Wetland WA-9 was 0.21 acres in size, located in the eastern portion of the Project Area. The source of wetland hydrology was primarily from surface runoff. Dominant vegetation included American elm, eastern cottonwood, and pussy willow. Hydric soil conditions met the requirements of a depleted matrix starting at 4 inches and continued for 20 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-10 – Wetland WA-10 was 0.44 acres in size, located in the eastern portion of the Project Area and within SWDA-3 The source of wetland hydrology was primarily from surface runoff. Dominant vegetation included common reed. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-11 – Wetland WA-11 was 0.58 acres in size, located in the eastern portion of the Project Area within a depressional area adjacent to undeveloped forest and paved access road. The source of wetland hydrology was primarily from surface runoff. Dominant vegetation included reed canary grass and common reed. Hydric soil conditions met the requirements of a thin dark surface from 0 to 5 inches, and a depleted matrix starting at 5 inches and continued for 20 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WA-12 – Wetland WA-12 was 2.33 acres in size, located in the eastern portion of the Project Area within a depressional area within a forested area. The source of wetland hydrology was primarily from surface runoff and ephemeral stream drainage. Stream SA-6 was connected to the northern portion of the wetland. Dominant vegetation included American elm, silver maple, and green ash. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-1 – Wetland WB-1 was 0.01 acres in size, located within a depression in an undeveloped forest patch in the northwestern corner of the Project Area. The source of wetland hydrology was primarily surface runoff. Dominant herbaceous vegetation included box elder and small-flowered agrimony (*Agrimonia parviflora*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-2 — Wetland WB-2 was 0.19 acres in size, located within a depression in an undeveloped

forest patch in the northwestern corner of the Project Area. The source of wetland hydrology was primarily surface runoff. Dominant herbaceous vegetation included intermediate wood fern (*Dryopteris intermedia*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 8 inches. A hydrogen sulfide odor was also observed. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-3 – Wetland WB-3 was 0.04 acres in size, located within a depression in an undeveloped forest patch in the northwestern corner of the Project Area. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included black currant (*Ribes americanum*) in the shrub layer and small-flowered agrimony and cinnamon fern (*Osmundastrum cinnamomeum*) in the herb layer. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 8 inches. A hydrogen sulfide odor was also observed. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-4 — Wetland WB-4 was 0.05 acres in size, located within a depression in an undeveloped forest patch in the northwestern corner of the Project Area. The source of wetland hydrology was primarily drainage from an ephemeral stream (SB-1) and a high-water table. Dominant vegetation included black currant in the shrub layer and jewelweed in the herb layer. Hydric soil conditions met the requirements of redox dark surface starting at 0 inches and continued for 20 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-5 – Wetland WB-5 was 0.08 acres in size, located within a depression in an active cornfield in the northwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-6 – Wetland WB-6 was 0.3 acres in size, located within a depression in an active cornfield in the northwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-7 – Wetland WB-7 was 0.15 acres in size, located within a depression in an active cornfield in the northwestern portion of the Project Area. The wetland continued offsite to the west. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions

met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-8 – Wetland WB-8 was 0.19 acres in size, located within a depression in an active cornfield in the northwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-9 — Wetland WB-9 was 2.64 acres in size, located within a depression in an active cornfield in the northwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-10 – Wetland WB-10 was a 0.09-acre man-made pond adjacent to wetland WB-11 in the southwestern portion of the Project Area. At the time of delineation, the surface water depth was approximately 18 inches; no aquatic vegetation was observed. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 18 inches. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Lake Ontario. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-11 – Wetland WB-11 was a 2.95-acre forested wetland located within a depression between agricultural fields in the southwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included red maple, American elm, white dogwood (*Cornus alba*), and fowl mannagrass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-12 — Wetland WB-12 was 0.27 acres in size, located within a depression in an active cornfield in the southwestern portion of the Project Area. The source of wetland hydrology was primarily surface runoff. At the time of delineation, no vegetation was observed but hydrophytes were assumed to be present later in the growing season. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-13 – Wetland WB-13 was a 7.63-acre NWI-mapped forested wetland in the southwestern portion of the Project Area that extended offsite to both the west and east, potentially connecting to Wetland WA-7. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included green ash, silver maple, and black currant. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches to 20 inches and a loamy mucky mineral from 0 to 4 inches. A hydrogen sulfide odor was also observed. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Lake Ontario. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-14 – Wetland WB-14 was a 0.23-acre pond adjacent to stream SA-2 in the south-central portion of the Project Area. At the time of delineation, the surface water depth was approximately 4 inches; no aquatic vegetation was observed. Hydric soil conditions met the requirements of a loamy mucky mineral starting at 0 inches and continued for 16 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS, Fish Creek. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-15 – Wetland WB-15 was 2.36 acres in size, located in the south-central portion of the Project Area and continued offsite to the east. The source of wetland hydrology was primarily surface runoff and a high-water table. Dominant vegetation included green ash, morrow's honeysuckle, reed canary grass, and poison ivy (*Toxicodendron radicans*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Fish Creek. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-16 – Wetland WB-16 was a 0.82-acre NWI-mapped wetland in the south-central portion of the Project Area that extended offsite to both the south and east, potentially connecting to Wetland WB-15. The source of wetland hydrology was primarily surface runoff and a high water table. The wetland had a palustrine forested (PFO) component, dominated by green ash, spicebush (*Lindera benzoin*), and black currant, as well as a palustrine emergent (PEM) cover type, dominated by reed canary grass and goldenrods (*Solidago rugosa and S. gigantea*). Hydric soil conditions were met by an 18-inch depleted matrix in the PEM component and a 16-inch redox dark surface in the PFO component. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Fish Creek. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-17 – Wetland WB-17 was 0.4 acres in size, located in the south-central portion of the Project Area and was adjacent to an isolated NWI-mapped wetland that was offsite to the west. The source of wetland hydrology was primarily surface runoff from the surrounding agricultural field. Dominant vegetation included curly dock (*Rumex crispus*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was classified as potentially federally jurisdictional due to a hydrological connection to a WOTUS, an unnamed tributary to Fish Creek. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-18 - Wetland WB-18 was a 22.47-acre palustrine emergent/palustrine scrub-shrub

wetland that extended offsite to the north, east, and west, potentially connecting to Wetland WB-19. The source of wetland hydrology was primarily surface runoff and a high-water table. Dominant vegetation included white dogwood, silky dogwood, speckled alder (*Alnus incana*), field horsetail (*Equisetum arvense*), and giant goldenrod (*S. gigantea*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 18 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Lake Ontario. This wetland was classified as State -jurisdictional as it was over 12.4 acres in size.

Wetland WB-19 – Wetland WB-19 was a 52.79-acre palustrine forested wetland located on the opposite side of the north-south railroad as Wetland WA-7. The wetland was an extension of an NWI-mapped wetland located at the southern end of the delineated feature. The wetland also extended offsite to the west, potentially connecting to Wetland WB-18. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included black willow (*Salix nigra*), eastern cottonwood, silky dogwood, and reed canary grass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS. This wetland was classified as State -jurisdictional as it was over 12.4 acres in size.

Wetland WB-20A – Wetland WB-20A was 10.39 acres in size, located on south side of Fish Creek. The wetland also partially extended offsite to the south, potentially connecting to other delineated features south of Lake Road. This wetland appears to be larger than it was previously delineated during the 2003 Stantec wetland delineation. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included eastern cottonwood, green ash, silver maple, silky dogwood, and reed canary grass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS.

Wetland WB-20B — Wetland WB-20 was 23.98 acres in size and identified within the NYSDPS approved area solid waste disposal pursuant to the Somerset Station 1983 license. It is located on the south side of Fish Creek and falls within SWDA-2. The source of wetland hydrology was primarily surface runoff. Dominant vegetation included eastern cottonwood, green ash, silver maple, silky dogwood, and reed canary grass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS.

Wetland WB-21 — Wetland WB-21 was 0.05 acres in size, located in a depression northwest of the landfill on the inactive coal plant parcel. The source of wetland hydrology was primarily surface runoff. The dominant vegetation in this palustrine emergent wetland was common reed. Hydric soil conditions met the requirements of a loamy mucky mineral starting at 0 inches and continued for 4 inches before hitting refusal. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not found within or close proximity to a current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-22 – Wetland WB-22 was a 0.15-acre NWI-mapped wetland adjacent to Fish Creek. The source of wetland hydrology was primarily surface runoff. Dominant vegetation in this palustrine forested wetland included eastern cottonwood, box elder, green ash, silky dogwood, jewelweed, and fowl mannagrass. Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 18 inches. This wetland was isolated with no apparent hydrologic connection to a

WOTUS and therefore it should not be afforded jurisdiction from USACE. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-23 – Wetland WB-23 was a 0.01-acre pond adjacent to Fish Creek in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 18 inches; no aquatic vegetation was observed. Observation of a hydrogen sulfide odor indicated hydric soil presence. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS. Since it was less than 12.4 acres in size and was not found within or close proximity to a current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-24 – Wetland WB-24 was 0.47 acres in size, located in a depression along Fish Creek in the central portion of the Project Area. The source of wetland hydrology was primarily surface runoff and a high-water table. Dominant vegetation included green ash, eastern cottonwood, box elder, creeping jenny (*Lysimachia nummularia*), and green bulrush (*Scirpus atrovirens*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. A hydrogen sulfide odor was also observed. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-25 – Wetland WB-25 was 2.57 acres in size, located in a depression in the central portion of the Project Area. The source of wetland hydrology was primarily surface runoff and a high-water table. Dominant vegetation in the palustrine forested cover type included green ash, eastern cottonwood, sensitive fern (*Onoclea sensibilis*), fowl mannagrass, and poison ivy; in the palustrine emergent cover type dominant vegetation included pussy willow, common reed, and narrowleaf cattail (*Typha angustifolia*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 16 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Wetland WB-26 – Wetland WB-26 was a 0.61-acre NWI-mapped wetland between Fish Creek and Lake Road. The source of wetland hydrology was primarily surface runoff and a high-water table. Dominant vegetation included red maple, green ash, and common reed. Hydric soil conditions met the requirements of redox dark surface starting at 0 inches and continued for 16 inches. This wetland was classified as potentially USACE-jurisdictional due to having a hydrological connection to a WOTUS. Since it was less than 12.4 acres in size and was not the current boundary of a mapped NYSDEC Freshwater Wetland, it should not be under State jurisdiction.

Table 3: Delineated Wetlands in the Somerset Solar Site

Wetland Delineation ID ¹		etland Acre			Area ²	Stream(s) Present Within	Linear Feet of Stream(s) Within	NYS Wetland Class ⁴	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ⁵	Anticipated State Jurisdiction ⁶	Detailed Figure/Map Sheet
	PEM	PFO	POW	PSS 0.30	Total 0.30	Wetland ³	Wetland	Class	Centrolu		Julistiction	Julisurction	Number(s)
WA-1	-	-	-	0.30	0.30	-	-	-	43.363159	-78.579340	-	-	3
WA-2	-	8.62	-	-	8.62	SB-3	3,085.56	-	43.356002	-78.581267	Potentially Jurisdictional	Potentially Jurisdictional	3
WA-3A		39.15	-	24.03	63.18	SA-6	2,233.86	-	43.351446	-78.577889	Potentially Jurisdictional	Potentially Jurisdictional	3,6
WA-3B	1.00	13.81	-	-	14.81	-	-	-	43.350049	-78.582831	Potentially Jurisdictional	-	3,6
WA-4	0.01	-	-	-	0.01	-	-	-	43.348283	-78.575239	-	-	6
WA-5	-	22.23	-	-	22.23	SA-6	247.54	-	43.346652	-78.578339	Potentially Jurisdictional	Potentially Jurisdictional	6
WA-6	0.51	-	-	-	0.51	-	-	-	43.331826	-78.609023	-	-	7
WA-7	-	28.61	-	-	28.61	SB-4, SA-8	826.67	-	43.341797	-78.608110	Potentially Jurisdictional	Potentially Jurisdictional	4,7
WA-8	2.33	-	-	-	2.33	-	-	-	43.354912	-78.580725	-	-	3,6
WA-9	-	0.21	-	-	0.21	-	-	-	43.355304	-78.580128	-	-	3
WA-10	0.44	-	-	-	0.44	-	-	-	43.354475	-78.592874	-	-	2
WA-11	0.58	-	-	-	0.58	-	-	-	43.356546	-78.592515	Potentially Jurisdictional	-	2,3
WA-12	-	2.33	-	-	2.33	-	-	-	43.346212	-78.582625	Potentially Jurisdictional	-	6
WB-1	0.01	-	-	-	0.01	-	-	-	43.357604	-78.618817	-	-	1
WB-2	0.19	-	-	-	0.19	-	-	-	43.357131	-78.618421	-	-	1

Wetland Delineation ID ¹		etland Acre				Stream(s) Present Within	Linear Feet of Stream(s) Within	NYS Wetland Class ⁴	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ⁵	Anticipated State Jurisdiction ⁶	Detailed Figure/Map Sheet
	PEM	PFO	POW	PSS	Total	Wetland ³	Wetland	Class	Centrola		Guilbaretton	guilbuiction	Number(s)
WB-3	0.04	-	-	-	0.04	-	-	-	43.356526	-78.619119	-	-	1
WB-4	0.05	-	-	-	0.05	SB-1	50.2	-	43.357284	-78.617378	-	-	1
WB-5	0.08	-	-	-	0.08	-	-	-	43.352491	-78.617520	-	-	4
WB-6	0.30	-	-	-	0.30	-	-	-	43.352494	-78.618226	-	-	4
WB-7	0.15	-	-	-	0.15	-	-	-	43.352543	-78.619355	-	-	4
WB-8	0.19	-	-	-	0.19	-	-	-	43.352713	-78.614423	-	-	4
WB-9	2.64	-	-	-	2.64	-	-	-	43.352143	-78.612465	-	-	4
WB-10	-	-	0.09	-	0.09	-	-	-	43.347627	-78.612368	-	-	4
WB-11	-	2.95	-	-	2.95	-	-	-	43.347325	-78.614021	-	-	4
WB-12	0.27	-	-	-	0.27	-	-	-	43.341711	-78.613557	-	-	4,7
WB-13	-	7.63	-	-	7.63	-	-	-	43.339644	-78.612571	Potentially Jurisdictional	Potentially Jurisdictional	7
WB-14	-	-	0.23	-	0.23	SB-2	27.08	-	43.345260	-78.596163	Potentially Jurisdictional	-	5
WB-15	-	2.36	-	-	2.36	-	-	-	43.344558	-78.592508	Potentially Jurisdictional	-	5
WB-16	0.82	-	-	-	0.82	-	-	-	43.340476	-78.594354	Potentially Jurisdictional	-	5,8
WB-17	0.4	-	-	-	0.4	-	-	-	43.339011	-78.596297	Potentially Jurisdictional	-	8
WB-18	0.5	3.85	-	9.5	13.85	-	-	-	43.347603	-78.602800	Potentially Jurisdictional	Potentially Jurisdictional	4,5

Wetland Delineation	W	etland Acre	age With	in Survey	Area ²	Stream(s) Present Within	Linear Feet of Stream(s) Within	NYS Wetland	Latitude of	Longitude of Centroid	Anticipated Federal	Anticipated State	Detailed Figure/Map Sheet
ID ¹	PEM	PFO	POW	PSS	Total	Wetland ³	Wetland	Class ⁴	Centroid		Jurisdiction ⁵	Jurisdiction ⁶	Number(s)
WB-19	0.46	52.33	-	-	52.79	SB-4	625.24	-	43.343573	-78.606060	Potentially Jurisdictional	Potentially Jurisdictional	4,5,7,8
WB-20A		10.39	-	-	10.39	SB-4	78.42	-	43.350910	-78.586510	Potentially Jurisdictional	Potentially Jurisdictional	5,6
WB-20B	2.58	21.40	-	-	23.98	-	-	-	43.350589	-78.586937	Potentially Jurisdictional	-	5,6
WB-21	0.05	-	-	-	0.05	-	-	-	43.355062	-78.585120	-	-	3
WB-22	-	0.15	-	-	0.15	-	-	-	43.352187	-78.591654	-	-	5
WB-23	-	-	0.01	-	0.01	-	-	-	43.352315	-78.592059	Potentially Jurisdictional	-	5
WB-24	-	0.47	-	-	0.47	SB-3	27.2	-	43.349025	-78.594491	Potentially Jurisdictional	-	5
WB-25	0.9	1.67	-	-	2.57	-	-	-	43.350177	-78.600471	Potentially Jurisdictional	-	4,5
WB-26	-	0.61	-	-	0.61	-	-	-	43.349937	-78.596341	Potentially Jurisdictional	-	5
Total Wetland Acres:	14.5	218.77	0.33	33.83	267.43								

¹ ID assigned by delineation personnel in the field.

² Wetland community types are based upon the Cowardin et al. (1979) classification system: PEM = Palustrine Emergent, PSS = Palustrine Scrub-Shrub, and PFO = Palustrine Forested, POW = Palustrine Open Water.

³ Delineation IDs in this column indicate the stream ID assigned by delineation personnel in the field.

If applicable

⁵ Based on professional judgement, final jurisdictional determination ultimately made by the USACE. ⁶ Based on professional judgement, final jurisdictional determination ultimately made by ORES in consultation with NYSDEC.

4.2 Delineated Waterbodies

Tetra Tech identified 18 streams (35,066 linear feet) and eight ponds (3.64 acres) within the Project Area (Figure 6). The streams were considered potentially jurisdictional under federal and state review, due to their connection or potential connection to WOTUS off-site and regulations under Section 401 of the Clean Water Act. Only pond OW-3 is considered potentially jurisdictional under federal review due to connection to stream SA-3. The other ponds are isolated or have no apparent hydrologic connection to WOTUS. None of the streams identified would be regulated under Article 15 of the ECL due to the Class C (standard) classifications (see Table 4). Data sheets can be found in Appendix B, and photographs are provided in Appendix C. Tables 4 and 5 summarize each of the delineated waterbodies; brief descriptions are provided below, along with whether these featured were identified as NHD mapped features.

Stream SA-1:

An unmapped drainage ditch with a silt substrate that was sourced from adjacent agricultural field drainage and flowed north before dispersing on a mowed path. Width of bank was approximately two feet and with an OHWM at six inches. Moderate bank erosion was present. Wetland WA-1 was located in the center of the stream where drainage ditches have eroded and overflowed.

Stream SA-2:

A mapped intermittent stream with a silt substrate that flowed northeast through a portion of the Project Area in the southeast. Originated off-site through an agricultural field and left the Project Area into a residential yard and pond. Width of bank was approximately five feet with an OHWM at 12 inches. Moderate bank erosion was observed.

Stream SA-3:

A mapped intermittent stream that flowed northeast through a portion of the Project Area in the east. Originated off-site and ran through wetlands WA-3, WA-5, and WA-12. Top of bank width was approximately four feet wide with an OHWM of seven inches. Substrate was mostly silt clay and appeared to be channelized. No bank erosion was observed.

Stream SA-4:

Unmapped ephemeral drainage that flowed north along a railroad track and into wetland WA-7. Top of bank width was approximately 18 inches with a OHWM of six inches. Substrate was mostly silt clay with lesser amounts of detritus, sand, and gravel. No bank erosion was observed.

Stream SA-5:

An unmapped drainage ditch that had a silt substrate with lesser sand and gravel components and was sourced from adjacent field and road drainage and flowed south. Width of bank was approximately three feet with an OHWM at six inches. No bank erosion was observed.

Stream SA-6:

An unmapped drainage ditch that that had a silt substrate with lesser sand and gravel components and was sourced from adjacent field and road drainage and flowed east. Width of bank was approximately four feet with an OHWM at eight inches. No bank erosion was observed.

Stream SA-7:

An unmapped drainage ditch that was sourced from adjacent field and road drainage and flowed southeast. The substrate was mainly silt with some sand and gravel. Width of bank approximately two feet and OHWM at ten inches. Moderate bank erosion was present.

Stream SA-8:

An unmapped drainage ditch with a silt substrate that was sourced from an adjacent field as well as road drainage and flowed east, potentially in a loop into the man-made pond OW-3. Width of bank was approximately three feet and the OHWM at 12 inches. No bank erosion was observed. Common reed was present in dense stands in certain sections.

Stream SA-9:

A mapped intermittent stream that flowed northeast through a portion of the Project Area. Connected to stream SA-19 through a culvert. Top of bank width was approximately four feet wide with an OHWM of seven inches. Substrate was mostly silt clay. No bank erosion was observed.

Stream SA-10:

Unmapped ephemeral drainage that flowed north off-site. Top of bank width was approximately five feet with an OHWM of twelve inches. Substrate was mostly silt clay with variable amounts of cobblestone within the drainage ditch.

Stream SA-11:

Unmapped ephemeral drainage that flowed north off-site. Top of bank width was approximately four feet with an OHWM of eight inches. Substrate was mostly silt clay with variable amounts of cobblestone and boulders within the drainage ditch.

Stream SA-12:

Unmapped ephemeral drainage that flowed east before dissipating. Top of bank width was approximately four feet with an OHWM of five inches. Substrate was mostly silt clay, sand, and gravel within the drainage ditch.

Stream SA-13:

Mapped ephemeral drainage that flowed east into a culvert under an access road that connected to SA-15. Top of bank width was approximately five feet with an OHWM of one foot. Substrate was mostly silt, clay, and gravel with variable amounts of cobblestone within the drainage ditch

Stream SA-14:

Mapped ephemeral drainage that flowed east along a railroad track located within the Facility. Top of bank width was approximately five feet with an OHWM of one foot. Substrate was mostly silt clay and gravel with variable amounts of cobblestone within the drainage ditch

Stream SB-1:

Unmapped ephemeral drainage that flowed north into wetland WA-4. Top of bank width was approximately two feet with an OHWM of two feet. Substrate was mostly silt clay with lesser amounts of detritus, sand, and gravel. No bank erosion was observed.

Stream SB-2:

Upper perennial reach of Fish Creek. Top of bank width was approximately 12 feet with an OHWM of

10 feet. Substrate consisted of a mixture of silt, clay, muck, detritus, and sand with a minor gravel component. Moderate bank erosion was observed.

Stream SB-3:

Lower perennial reach of Fish Creek. Top of bank width was approximately 12 feet with an OHWM of 10 feet. Substrate consisted of a mixture of silt, clay, muck, detritus, and sand with a minor gravel component. Moderate bank erosion was observed.

Stream SB-4:

NWI-mapped, unnamed intermittent tributary to Fish Creek. Top of bank width was approximately four feet with an OHWM of three feet. Substrate was mostly sand and silt with lesser amounts of clay and gravel and a minor cobble component. No bank erosion was observed.

Waterbody OW-1:

Waterbody OW-1 was a 0.2-acre pond located in an upland forest in the eastern portion of the Project Area. At the time of delineation, the surface water depth was approximately 12 inches; with some common reed was observed. Exposed soils, water stained leaves, and water marks suggest a higher OHWM. This pond was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-2:

Waterbody OW-2 was a 0.09-acre pond located in an upland forest in the eastern portion of the Project Area. At the time of delineation, the surface water depth was approximately 2.5 feet; with some algae observed throughout. Exposed soils, water stained leaves, and water marks suggest a higher OHWM. This wetland was isolated with no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-3:

Waterbody OW-3 was a 0.89-acre man-made retention pond located in the eastern portion of the Project Area. At the time of delineation, the surface water depth was approximately 3 feet; with some common reed was observed along the edges and culvert connections. This pond was connected to stream SA-8, though no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-4:

Waterbody OW-4 was a 0.1-acre pond located in an upland forest in the southeastern portion of the Project Area. At the time of delineation, the surface water depth was approximately 2 feet; with some common reed and narrowleaf cattail was observed. Exposed soils, water stained leaves, and water marks suggest a higher OHWM. This pond is adjacent to stream SA-3 classified as potentially USACE-jurisdictional due to apparent hydrologic connection to a WOTUS.

Waterbody OW-5:

Waterbody OW-5 was a 0.69-acre man-made retention pond located along the train tracks located in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 3 feet; with some common reed was observed. This pond was connected to stream SA-14, though no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-6:

Waterbody OW-6 was a 0.06-acre man-made retention pond located before a roadside culvert in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 2 feet; with some common reed was observed. This pond was connected to stream SA-14, though no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-7:

Waterbody OW-7 was a 0.27-acre man-made retention pond located along the train tracks located in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 3 feet; with some common reed was observed. This pond was connected to stream SA-14, though no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

Waterbody OW-8:

Waterbody OW-7 was a 1.35-acre man-made retention pond located along the train tracks located in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 3 feet; with some common reed was observed. This pond was connected to stream SA-14, though no apparent hydrologic connection to a WOTUS and therefore it should not be afforded jurisdiction from USACE.

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Table 4: Delineated Streams in the Somerset Solar Site

Stream Delineation ID ¹	Linear Feet of Stream Within Study Area	Flow Characterist ics/Stream Type ²	Stream Name ³	NYSDEC Stream Class ⁴	Waterbody Identificatio n Number (WIN) ⁵	Stream Order ⁶	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ⁷	Anticipated State Jurisdiction ⁸	Detailed Figure/Ma p Sheet Number(s
SA-1	708	intermittent	UNT	unmapped	unassessed	1	43.364037	-78.579096	Potentially Jurisdictional	-	3
SA-2	848	intermittent	UNT	С	unassessed	3	43.344216	-78.577802	Potentially Jurisdictional	Potentially Jurisdictional	6
SA-3	246	intermittent	UNT	С	unassessed	3	43.347611	-78.582354	Potentially Jurisdictional	Potentially Jurisdictional	6
SA-4	3099	ephemeral	UNT	unmapped	unassessed	3	43.332146	-78.607750	Potentially Jurisdictional	Potentially Jurisdictional	4,7
SA-5	945	ephemeral	UNT	unmapped	unassessed	2	43.356124	-78.585955	Potentially Jurisdictional	Potentially Jurisdictional	3
SA-6	837	ephemeral	UNT	unmapped	unassessed	1	43.356090	-78.586385	Potentially Jurisdictional	Potentially Jurisdictional	3
SA-7	277	ephemeral	UNT	unmapped	unassessed	1	43.355269	-78.594242	Potentially Jurisdictional	Potentially Jurisdictional	2
SA-8	3,578	ephemeral	UNT	unmapped	unassessed	2	43.353665	-78.593939	Potentially Jurisdictional	Potentially Jurisdictional	2,3,5,6
SA-9	729	perennial	UNT	С	unassessed	1	43.356678	-78.594267	Potentially Jurisdictional	Potentially Jurisdictional	2

Stream Delineation ID ¹	Linear Feet of Stream Within Study Area	Flow Characterist ics/Stream Type ²	Stream Name ³	NYSDEC Stream Class ⁴	Waterbody Identificatio n Number (WIN) ⁵	Stream Order ⁶	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ⁷	Anticipated State Jurisdiction ⁸	Detailed Figure/Ma p Sheet Number(s
SA-10	2,474	ephemeral	UNT	unmapped	unassessed	1	43.356289	-78.610539	Potentially Jurisdictional	Potentially Jurisdictional	1,4
SA-11	2,375	ephemeral	UNT	unmapped	unassessed	1	43.357121	-78.611405	Potentially Jurisdictional	Potentially Jurisdictional	1,4
SA-12	835	ephemeral	UNT	unmapped	unassessed	1	43.353152	-78.609603	Potentially Jurisdictional	Potentially Jurisdictional	4
SA-13	3,941	ephemeral	UNT	С	unassessed	1	43.352827	-78.599648	Potentially Jurisdictional	Potentially Jurisdictional	2,4,5
SA-14	3,445	ephemeral	UNT	unmapped	unassessed	1	43.351345	-78.600720	Potentially Jurisdictional	Potentially Jurisdictional	1,2,4,5
SB-1	410	ephemeral	UNT	unmapped	NA	NA	43.356681	-78.617413	Potentially Jurisdictional	Potentially Jurisdictional	1
SB-2	1,286	perennial	Fish Creek	С	unassessed	3	43.345670	-78.596408	Potentially Jurisdictional	Potentially Jurisdictional	5
SB-3	6,000	perennial	Fish Creek	С	unassessed	3	43.352163	-78.589680	Potentially Jurisdictional	Potentially Jurisdictional	3,5,6
SB-4	1,398	intermittent	UNT	С	unassessed	2	43.336980	-78.606432	Potentially Jurisdictional	Potentially Jurisdictional	7,8

Stream Delineation ID ¹	Linear Feet of Stream Within Study Area	Flow Characterist ics/Stream Type ²	Stream Name ³	NYSDEC Stream Class ⁴	Waterbody Identificatio n Number (WIN) ⁵	Stream Order ⁶	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ⁷	Anticipated State Jurisdiction ⁸	Detailed Figure/Ma p Sheet Number(s
Total Streams:	35,066	round in the fiel									

¹ ID assigned by delineation personnel in the field.

² Perennial, intermittent, ephemeral.

³UNT = Unnamed Tributary

⁴Based on publicly available NYSDEC stream mapping.

⁵See 6 NYCRR Parts 800-941.

⁶Using Strahler method.

Based on professional judgement, final jurisdictional determination ultimately made by the USACE.
 Based on professional judgement, final jurisdictional determination ultimately made by ORES in consultation with NYSDEC.

Table 5: Other Delineated Waterbodies in the Somerset Solar Site

Waterbody Delineation ID ¹	Waterbody Acreage Within Survey Area	NYSDEC Waterbody Class ²	Latitude of Centroid	Longitude of Centroid	Anticipated Federal Jurisdiction ³	Anticipated State Jurisdiction ⁴	Detailed Figure/Map Sheet Number(s)
OW-1	0.2	-	43.356069	-78.584447	-	-	3
OW-2	0.09	-	43.356145	-78.583755	-	-	3
OW-3	0.89	-	43.355398	-78.591640	-	-	2,3
OW-4	0.1	-	43.347338	-78.582541	Potentially Jurisdictional	-	6
OW-5	0.69	-	43.351635	-78.597226	-	-	5
OW-6	0.06	-	43.355350	-78.596311	-	-	2,5
OW-7	0.27	-	43.352119	-78.605976	-	-	4,5
OW-8	1.35	-	43.352718	-78.605431	-	-	4,5
Total Waterbodies:	3.64						

¹ ID assigned by delineation personnel in the field.

²Based on publicly available NYSDEC waterbody mapping.

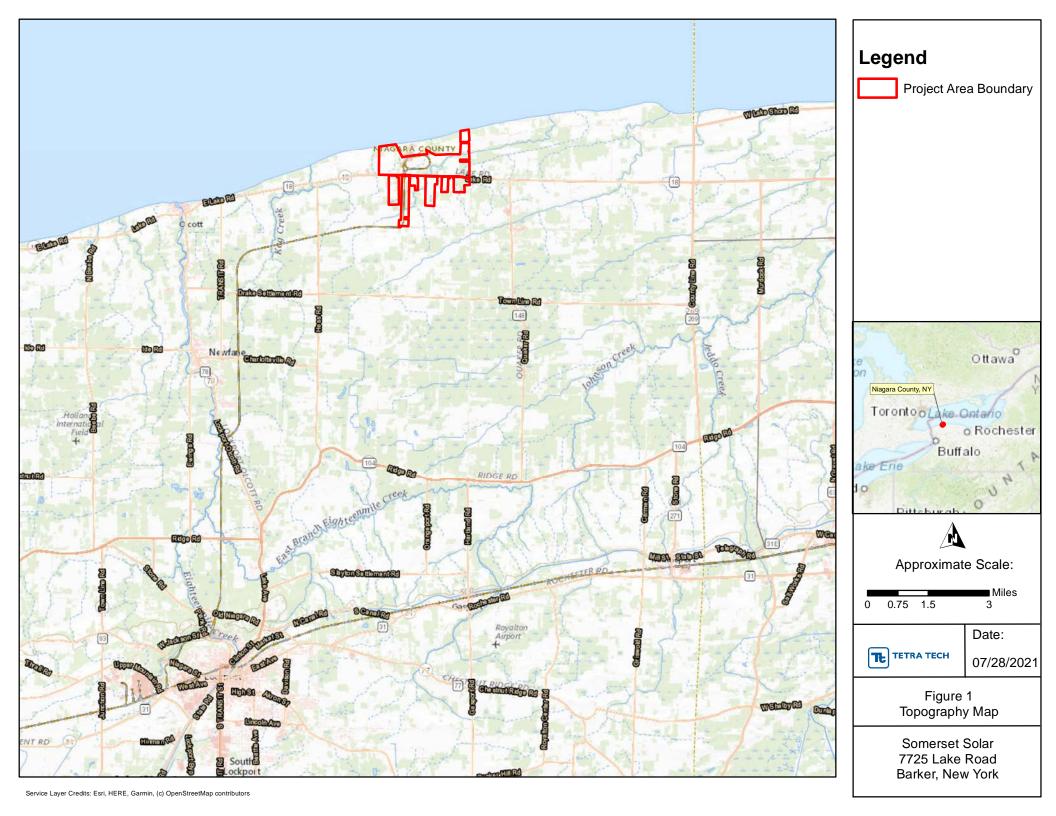
³ Based on professional judgement, final jurisdictional determination ultimately made by the USACE.

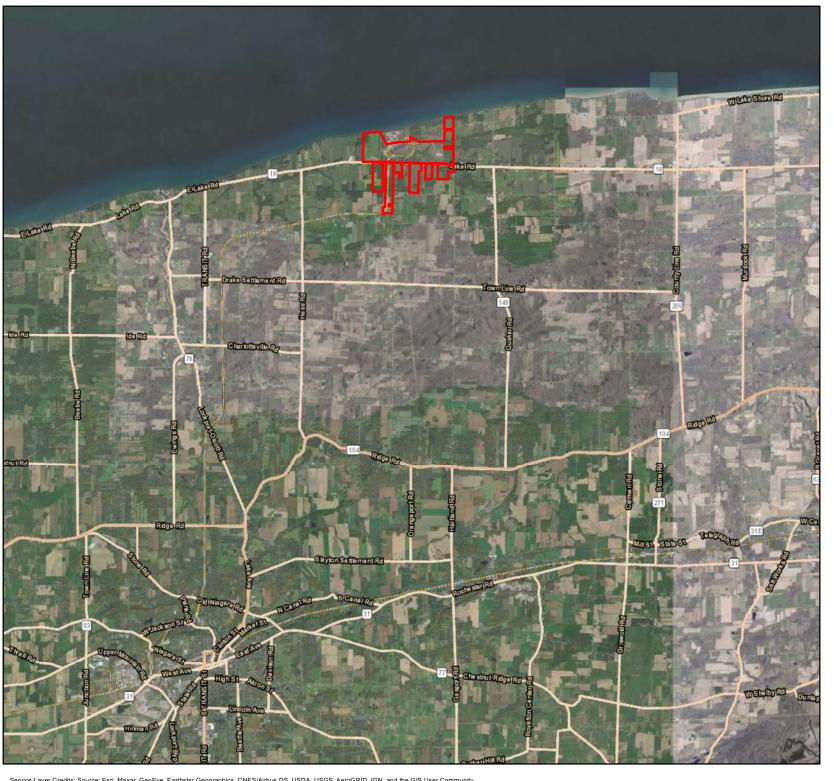
⁴ Based on professional judgement, final jurisdictional determination ultimately made by ORES in consultation with NYSDEC.

5.0 REFERENCES

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FIGURES







Project Area Boundary



Approximate Scale:

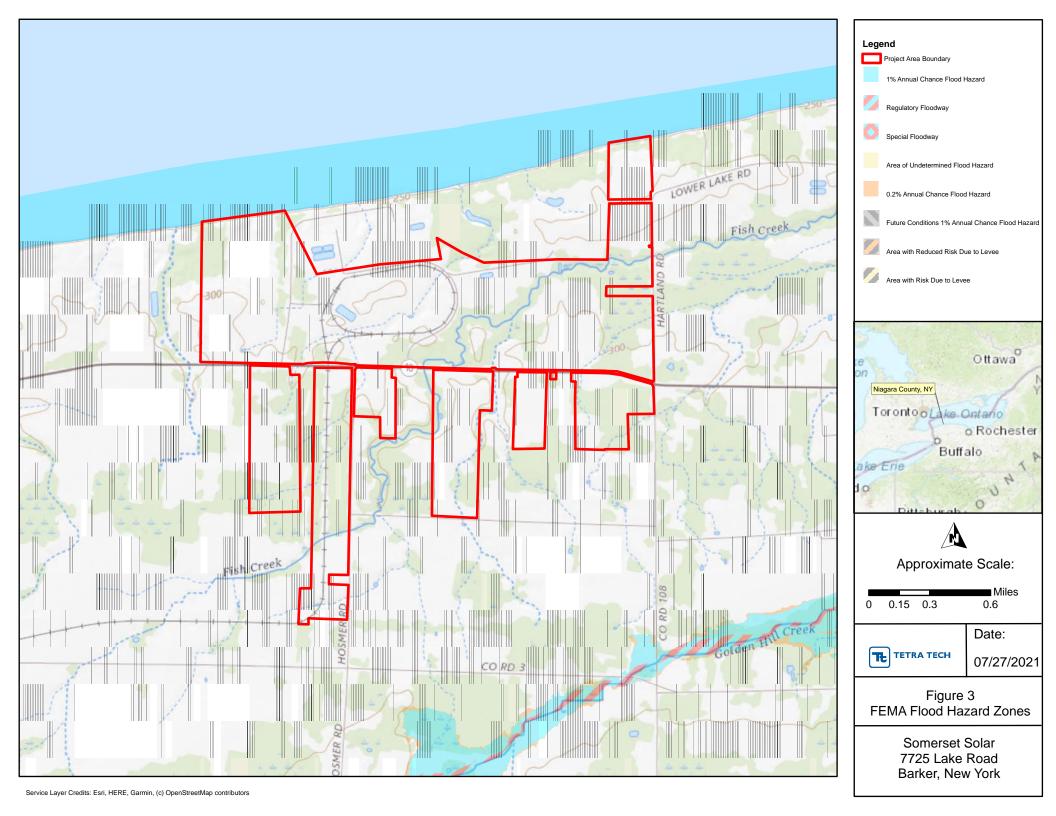
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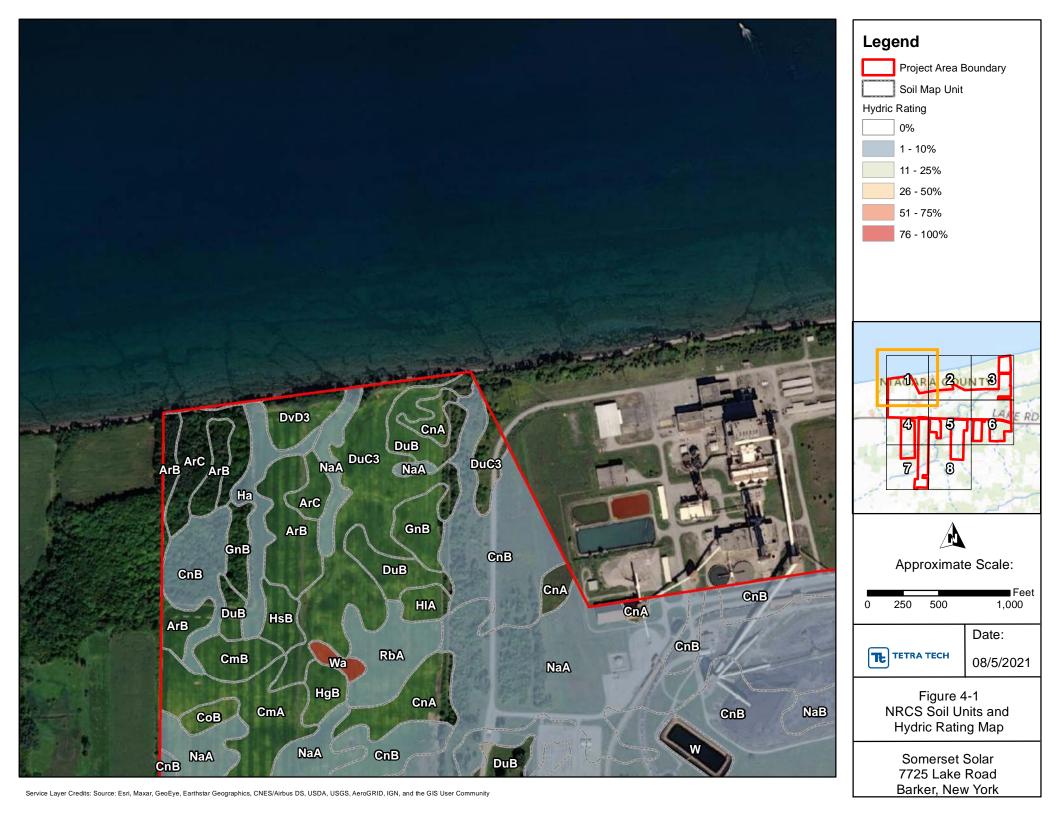
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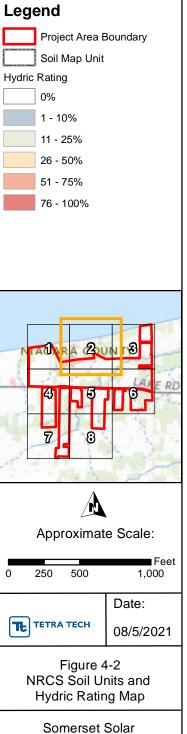
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Figure 2 Aerial Map

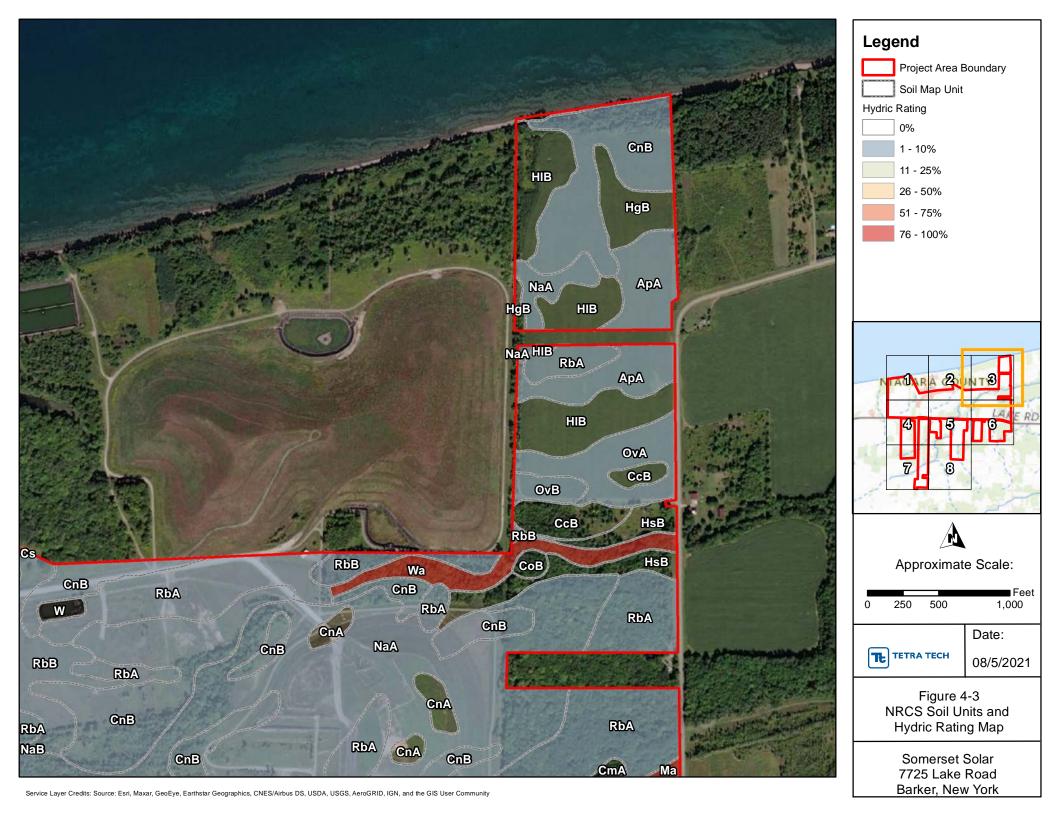


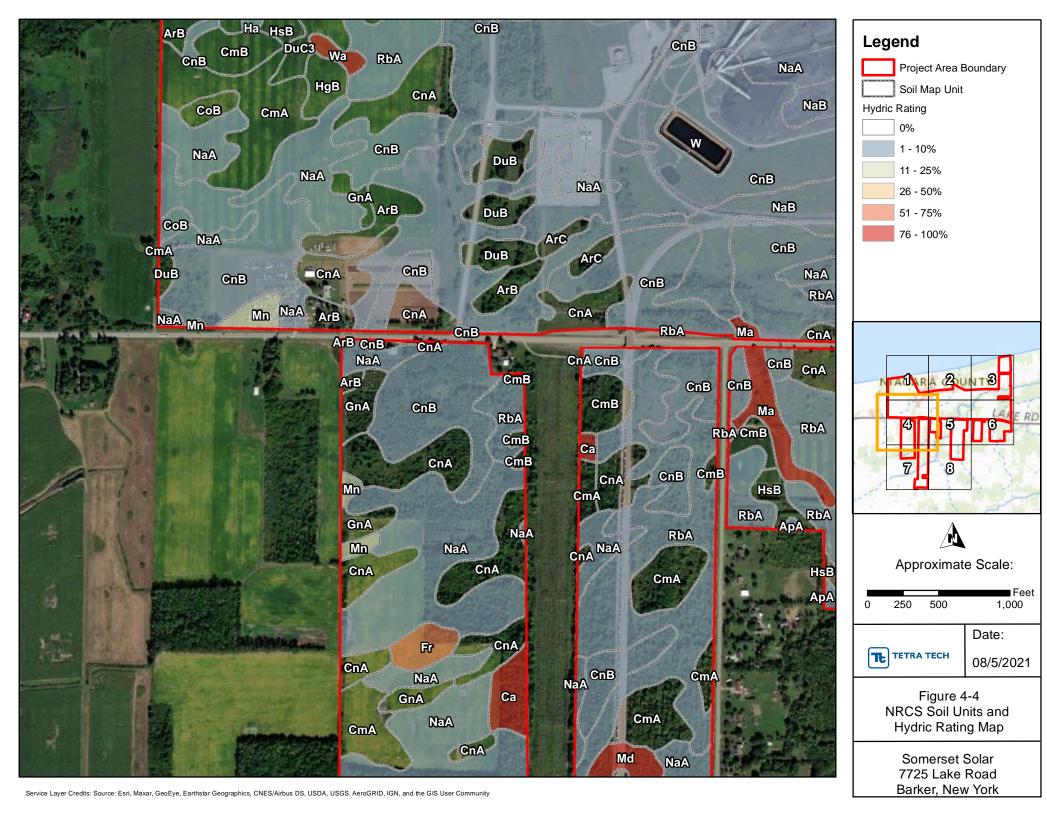


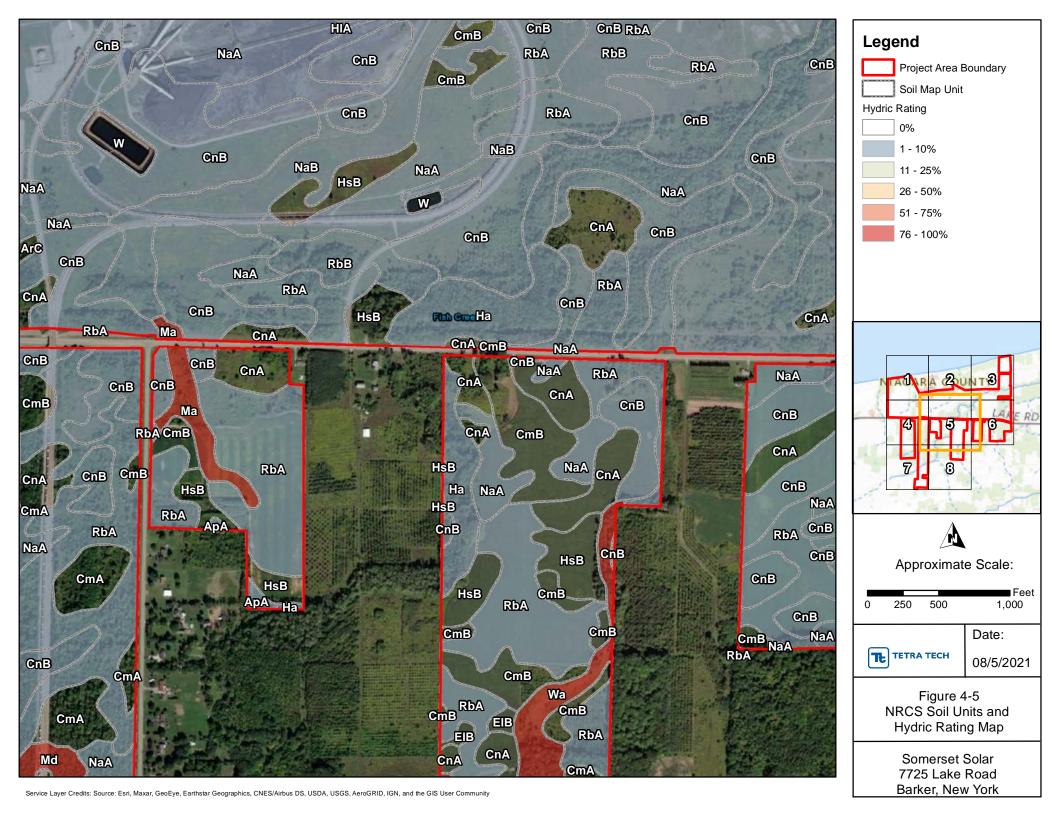


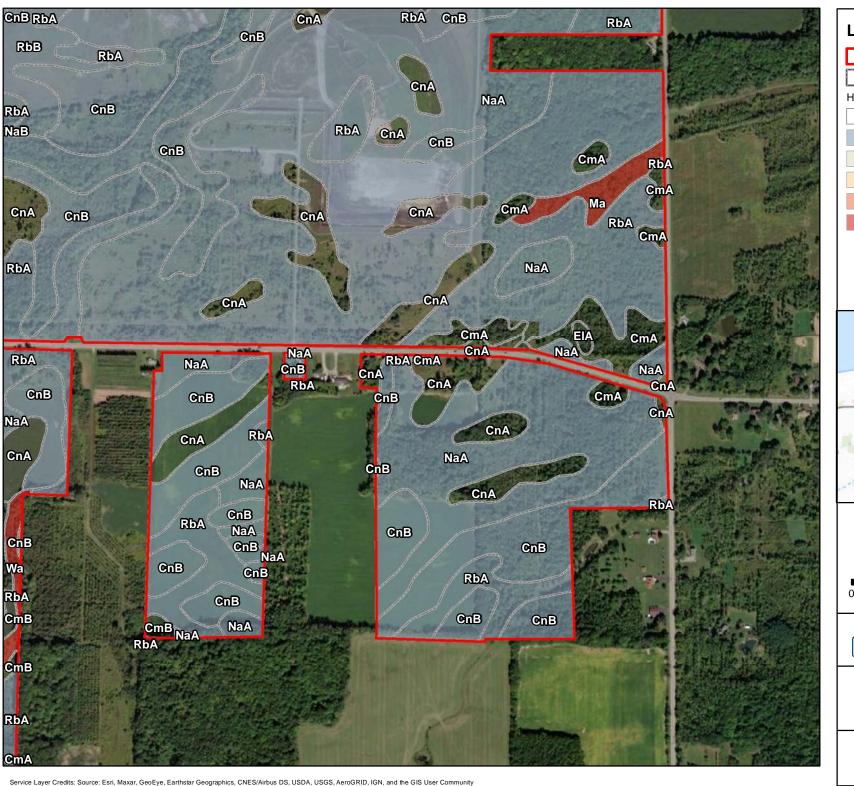


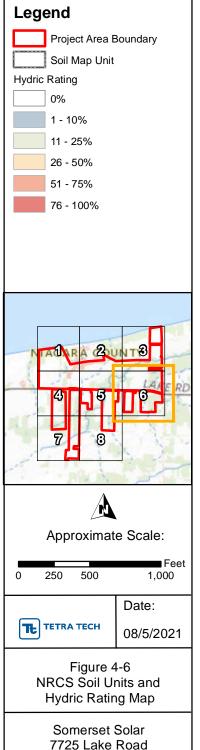
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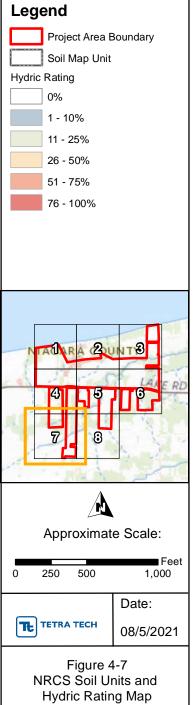


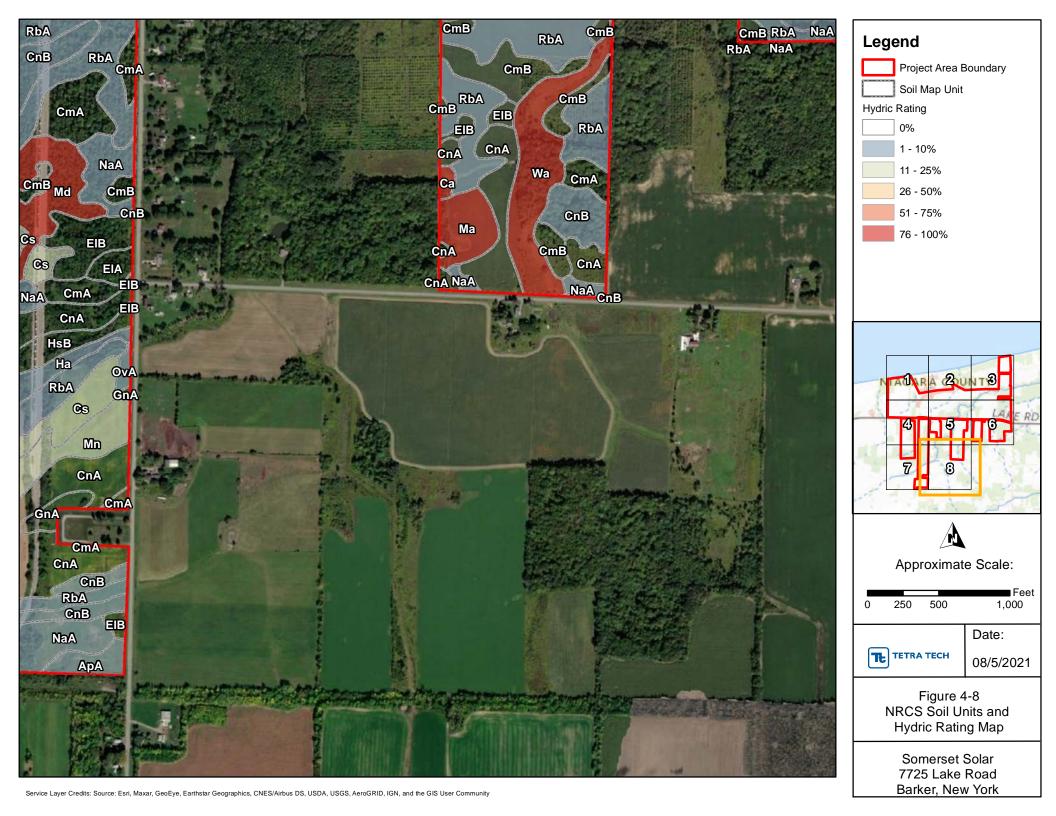




Barker, New York











Project Area Boundary Mapped NWI Wetlands Mapped NHD Stream



Approximate Scale:

650 1,300 2,600

Date:

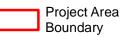
TETRA TECH

08/5/2021

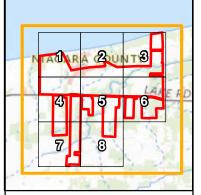
Figure 5 Mapped Aquatic Features



Legend









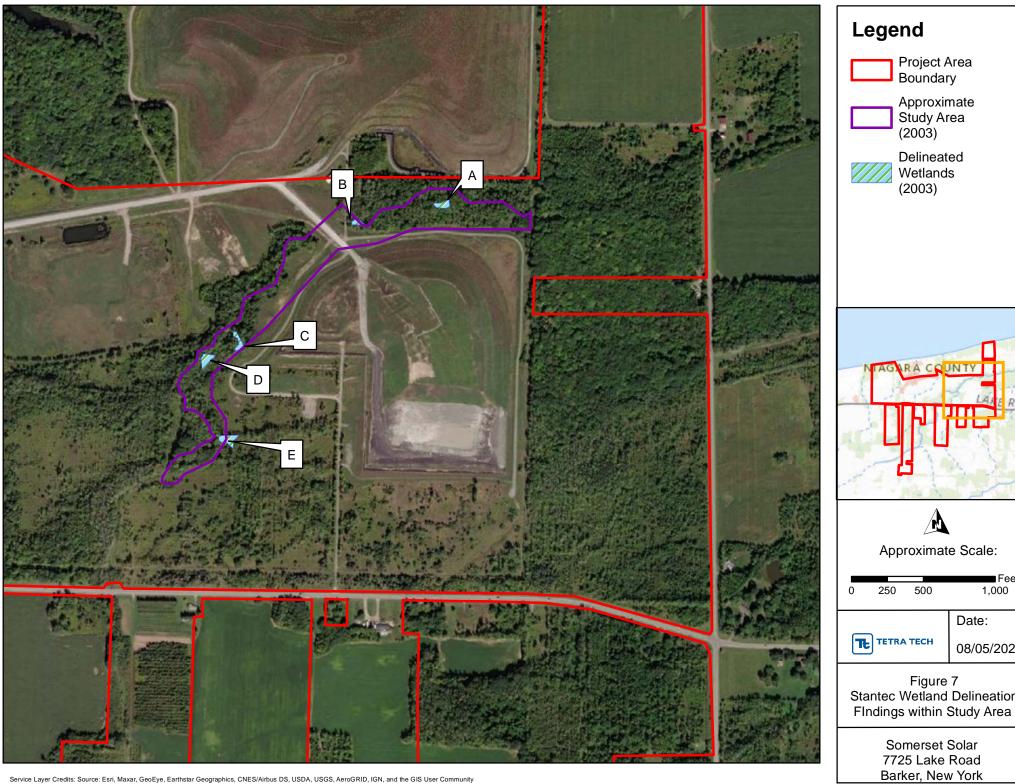
650 1,300 2,600

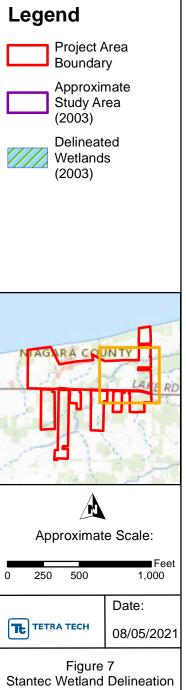
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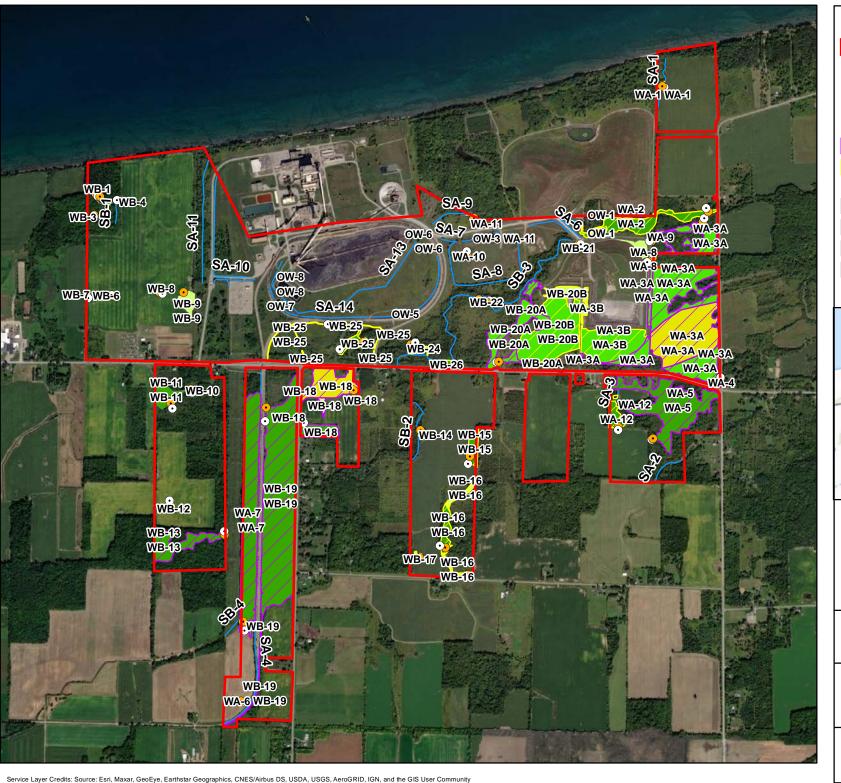
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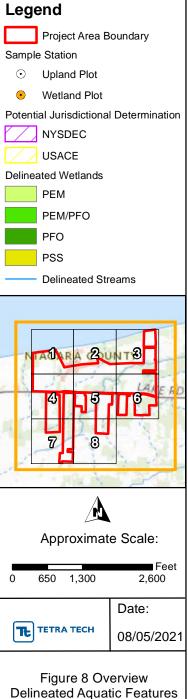
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Figure 6 Approved Solid Waste Disposal Areas

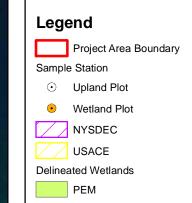


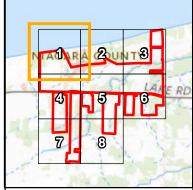




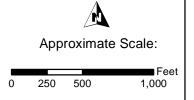








Delineated Streams



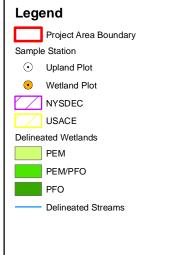


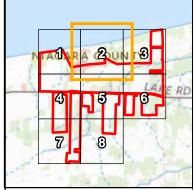
Date:

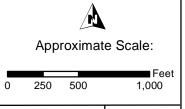
08/05/2021

Figure 8-1 Delineated Aquatic Features







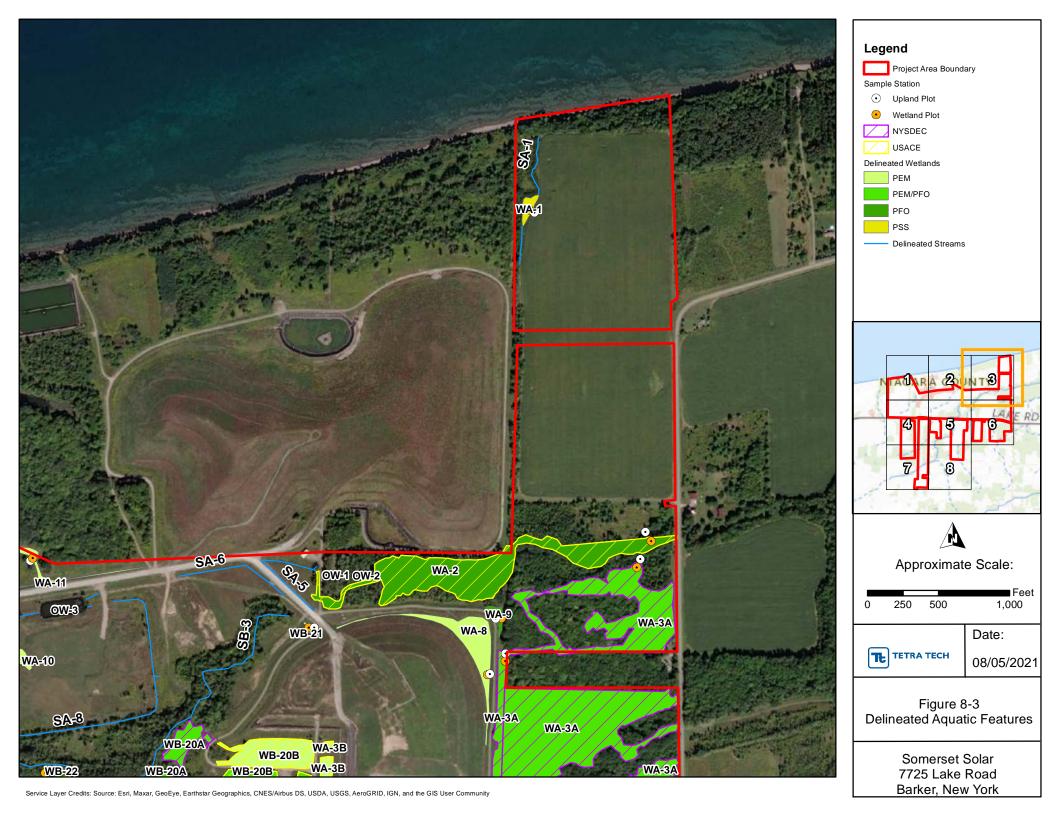


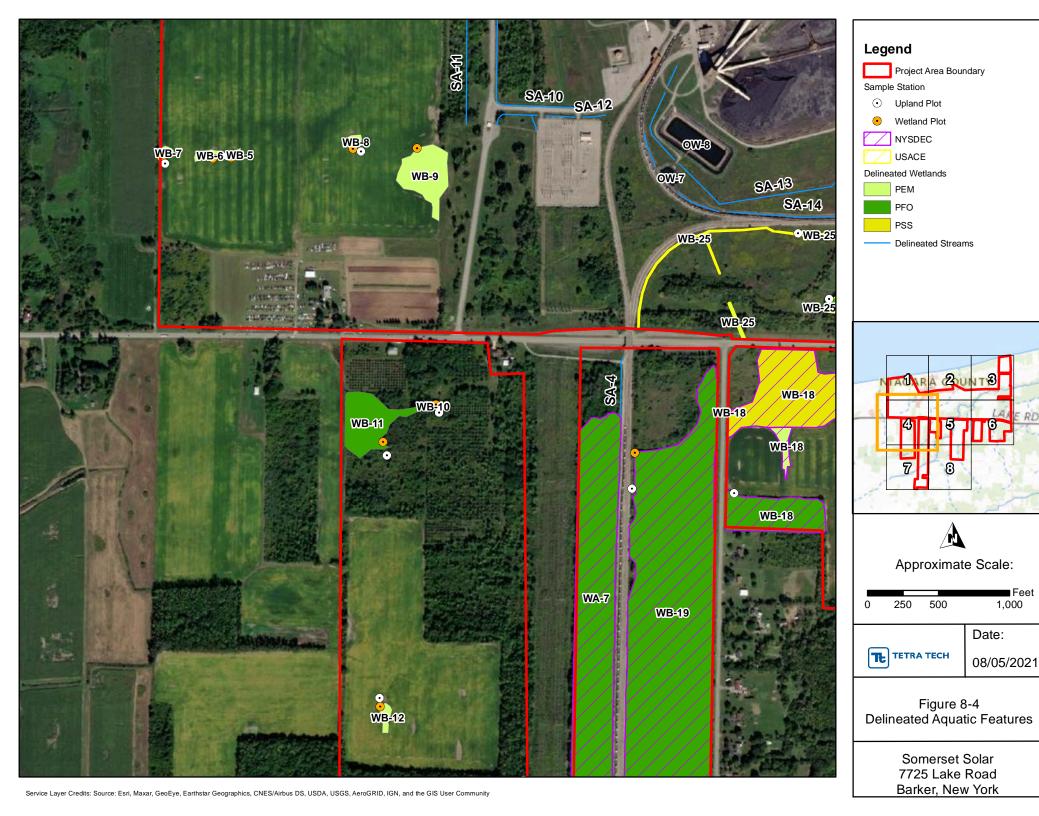


Date:

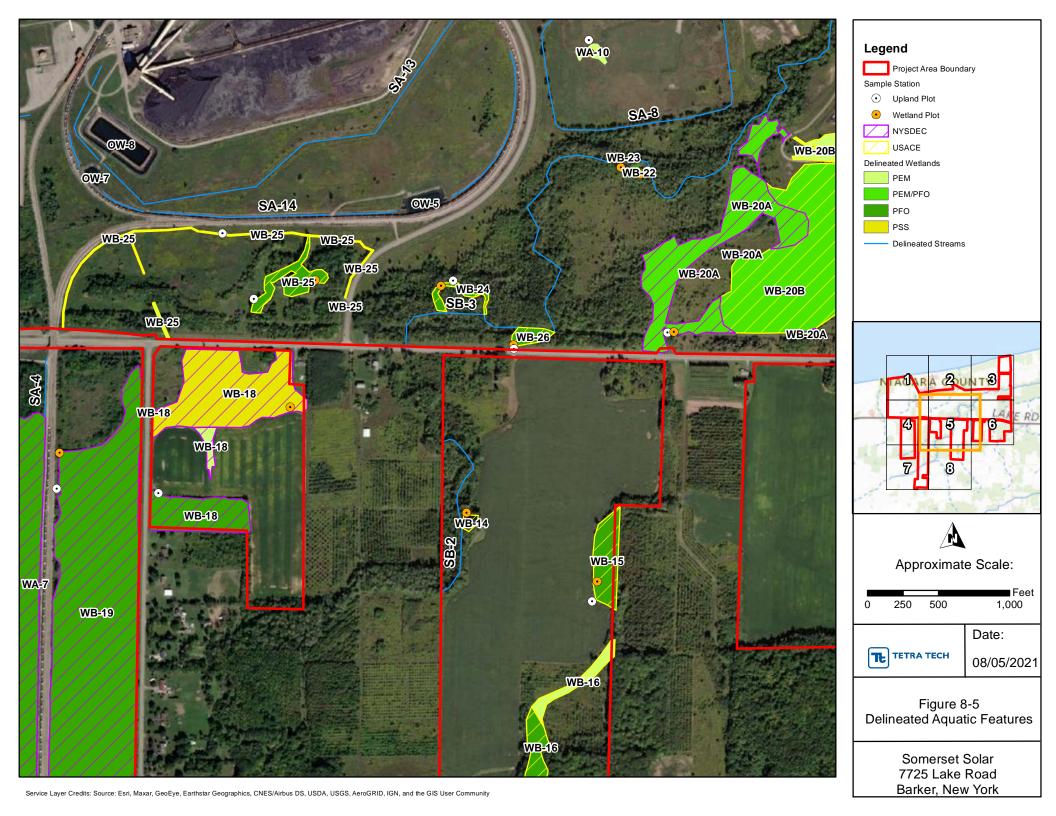
08/05/2021

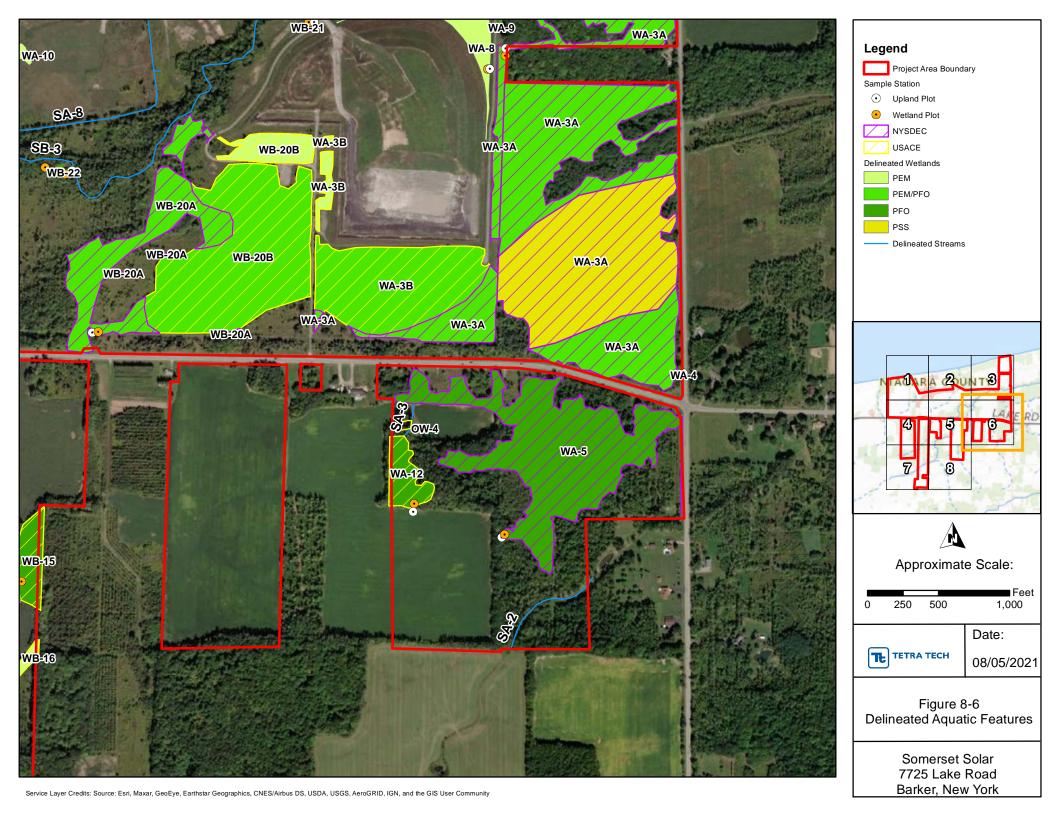
Figure 8-2 Delineated Aquatic Features

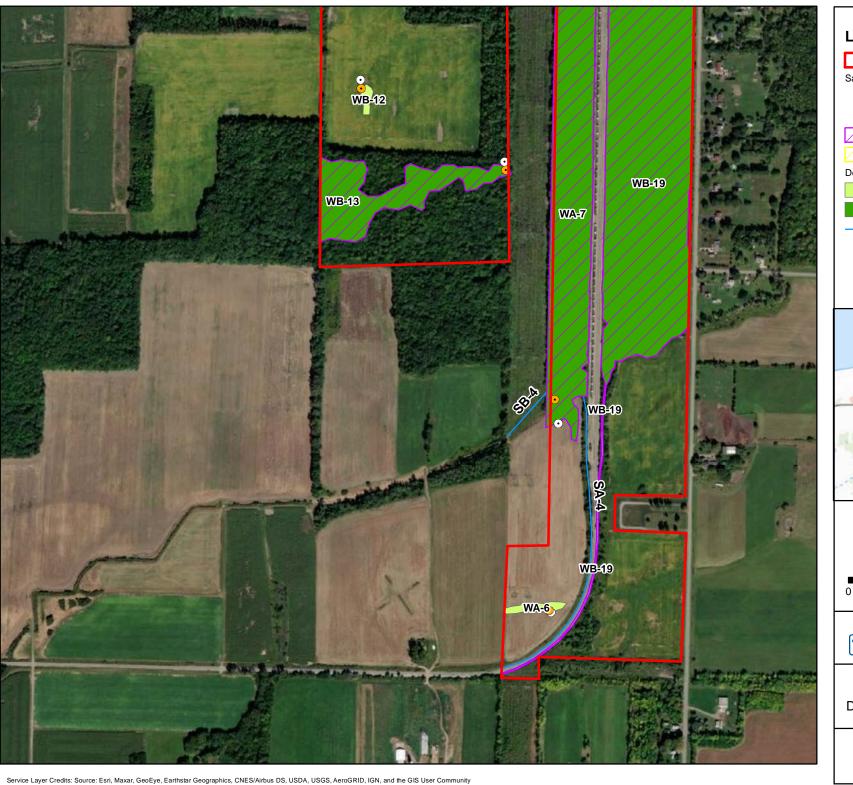


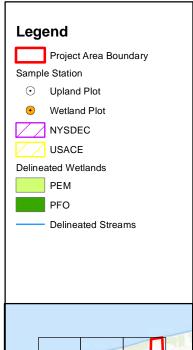


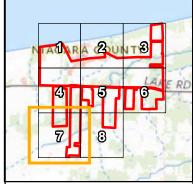
1,000











Approximate Scale:

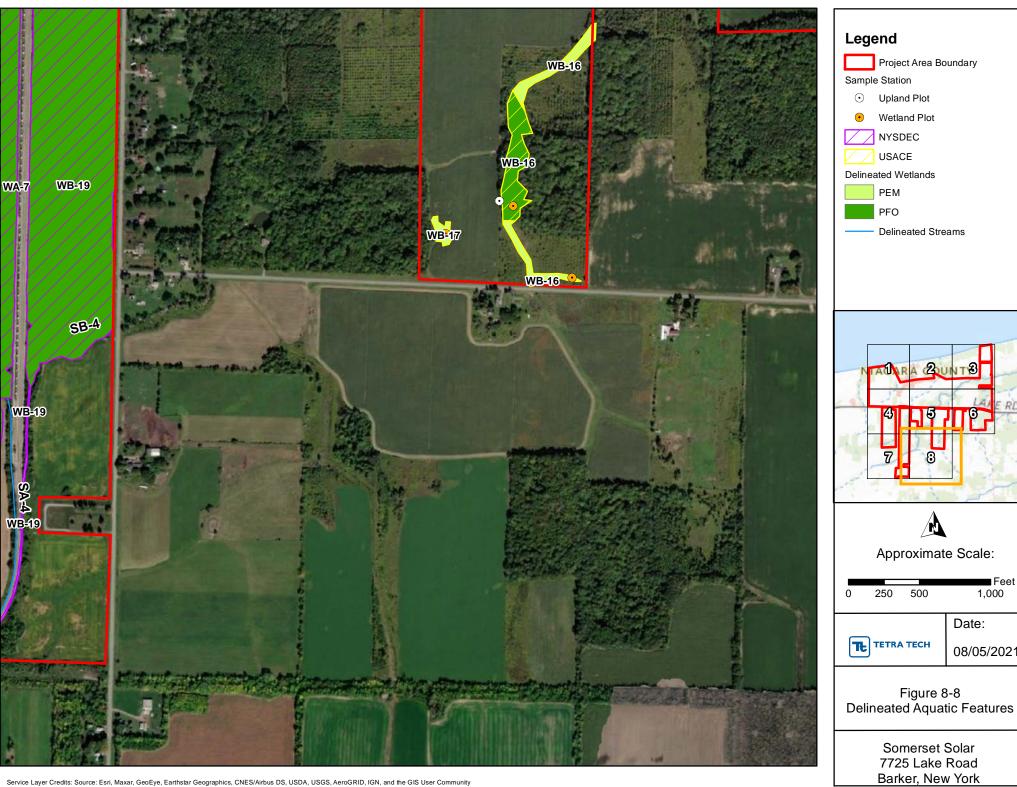
250 500 1,000

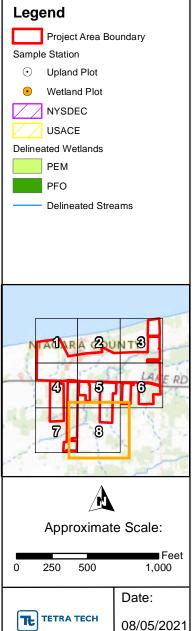
TETRA TECH

Date:

08/05/2021

Figure 8-7
Delineated Aquatic Features





Somerset Solar 7725 Lake Road

Barker, New York

APPENDICES

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/3/21
Applicant/Owner: AES	State: NY Sampling Point: WA1
Investigator(s): Drew Timmis	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.354519	Long: -78.579268 Datum: WGS 84
Soil Map Unit Name: Hilton silt loam, 3 to 8 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes X No (If no, explain in Remarks.)
	antly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate reproduction of stream with standing water and dominated by v	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
 -	ed Leaves (B9) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Faur	
Saturation (A3)Marl Deposit	
l 	ulfide Odor (C1) Crayfish Burrows (C8)
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
l 	Reduced Iron (C4) Stunted or Stressed Plants (D1) Reduction in Tilled Soils (CC) Commercial Resistant (D2)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2) X Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck S Inundation Visible on Aerial Imagery (B7) Other (Expla	ain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (incl	hes): 2
Water Table Present? Yes X No Depth (incl	
Saturation Present? Yes No X Depth (incl	hes): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Pomorko	
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: WA1 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = Salix discolor **FACW** species x 2 = 0 0 2. FAC species x 3 = 3. FACU species 0 x 4 = 0 4. UPL species x 5 = 0 Column Totals: 75 (A) 150 (B) Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 75 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) No vegetation currently, assumed hydrophytes to be present later in the growing season.

SOIL Sampling Point: WA1

	escription: (Describe	to the de	-			r or confi	irm the absence of	indicators.)
Depth	Matrix	%	Color (moist)	x Feature		Loc ²	Toyeturo	Domorko
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
0-8	10YR 3/2	100	·				Loamy/Clayey	refusal hit
								_
¹ Type: C=	Concentration, D=Depl	etion. RM	1=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand (Grains. ² Loca	ation: PL=Pore Lining, M=Matrix.
	oil Indicators:		· · · · · · · · · · · · · · · · · · ·					Problematic Hydric Soils ³ :
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	R R.		k (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)	•	(00) (=:::	,		irie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surface	ce (S9) (LRR R. M	LRA 1491		ky Peat or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)		High Chroma Sa					Below Surface (S8) (LRR K, L)
	fied Layers (A5)		Loamy Mucky M			-		Surface (S9) (LRR K, L)
	eted Below Dark Surface	e (A11)	Loamy Gleyed M			·, - /		panese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)	5 (7111)	X Depleted Matrix		-)			Floodplain Soils (F19) (MLRA 149B)
	y Mucky Mineral (S1)		Redox Dark Surf		1			odic (TA6) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark S	, ,				nt Material (F21)
	y Redox (S5)		Redox Depression		',			low Dark Surface (TF12)
	ped Matrix (S6)		Marl (F10) (LRR					plain in Remarks)
	Surface (S7)			ιτ, =/			Outlot (EX	olain in Romano,
Bark	ouriace (or)							
³ Indicators	s of hydrophytic vegetat	ion and w	vetland hydrology mus	t he nres	eant unles	e dieturha	ad or problematic	
	re Layer (if observed):	ion and w	ctiana nyarology mas	t be piec	ociit, uiilee	3 distarbe	or problematic.	
	stone material							
_		•						
Depth (i	ncnes):	8					Hydric Soil Pres	sent? Yes X No
Remarks:								
			_	Supplem	ent Versio	n 2.0 to re	eflect the NRCS Field	d Indicators of Hydric Soils version 8.1
2017 Erra	ta. (http://soils.usda.gov	//use/hyd	ric)					

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	C	ty/County: Somerset/Niagara	Sampling	Date: <u>5/3/21</u>
Applicant/Owner: AES			State: NY Sa	ampling Point: UA1
Investigator(s): Drew Timmis	Se	ection, Township, Range:		
Landform (hillside, terrace, etc.):	terrace Loca	Il relief (concave, convex, none):	Convex	Slope (%): 3-8
Subregion (LRR or MLRA): LRR L		Long: -78.5791		Datum: WGS 84
Soil Map Unit Name: Hilton silt loa	<u> </u>		NWI classification:	
<u>-</u>				- \
	on the site typical for this time of year?	Yes X No (If		
	, or Hydrologysignificantly d		•	Yes X No
Are Vegetation, Soil	, or Hydrologynaturally prob	lematic? (If needed, explain a	ny answers in Remarks	s.)
SUMMARY OF FINDINGS -	- Attach site map showing sar	npling point locations, tra	ınsects, importan	t features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes No X	within a Wetland?	Yes No	X
Wetland Hydrology Present?	Yes No X	If yes, optional Wetland Site ID:		
HYDROLOGY				
Wetland Hydrology Indicators:		Seco	ondary Indicators (minir	mum of two required)
	ne is required; check all that apply)		Surface Soil Cracks (B	•
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 Tab	ole (C2)
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)	(CO)
Sediment Deposits (B2)	Presence of Redu		Saturation Visible on A	
Drift Deposits (B3) Algal Mat or Crust (B4)		` '	Stunted or Stressed Place Geomorphic Position (I	
Iron Deposits (B5)	Thin Muck Surface	` ' —	Shallow Aquitard (D3)	D2)
Inundation Visible on Aerial Ir		· ·	Microtopographic Relie	of (D4)
Sparsely Vegetated Concave		· —	FAC-Neutral Test (D5)	` '
Field Observations:	Curiado (BO)		The Heatial Test (Bo)	
	es No X Depth (inches):			
Water Table Present?	es NoX Depth (inches): es NoX Depth (inches):			
	es No X Depth (inches):		gy Present? Ye	s No_X_
(includes capillary fringe)	<u> </u>		<i>.</i>	
	gauge, monitoring well, aerial photos, p	revious inspections), if available:		
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: UA1 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. 0 (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species 0 x 1 = **FACW** species x 2 = 0 2. FAC species x 3 = 0 3. FACU species 10 x 4 = 80 4. UPL species x 5 = 400 Column Totals: 90 (A) 440 (B) Prevalence Index = B/A = 4.89 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 80 **UPL** 3 - Prevalence Index is ≤3.0¹ Zea mays Yes Taraxacum officinale FACU 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 7. 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 90 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic Vegetation Yes X No___ Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) No vegetation currently, assumed hydrophytes to be present later in the growing season.

SOIL Sampling Point: UA1

Profile Description: (Describe to the depth needed to document the indicator or conf					firm the absence of indicators.)				
Depth	Matrix	0/		x Feature %		Loc ²	Toveture	Remarks	
(inches)	Color (moist)	<u>%</u>	Color (moist)	70	Type ¹	LOC	Texture	Remarks	
0-10	10YR 4/3	100	-				Loamy/Clayey		
10-19	10YR 5/4	100					Loamy/Clayey		
			_						
¹ Type: C=	-Concentration, D=Dep	letion, RM	l=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand	Grains. ² Location: I	PL=Pore Lining, M=Matrix.	
Hydric Sc	oil Indicators:							ematic Hydric Soils ³ :	
Histo:	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	RR,	2 cm Muck (A10)) (LRR K, L, MLRA 149B)	
Histic	Epipedon (A2)		MLRA 149B)				Coast Prairie Re	dox (A16) (LRR K, L, R)	
Black	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 1491	B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydro	ogen Sulfide (A4)		High Chroma Sands (S11) (LRR K, L)				Polyvalue Below	Surface (S8) (LRR K, L)	
Strati	fied Layers (A5)		Loamy Mucky M	ineral (F	1) (LRR K	, L)	Thin Dark Surface	ce (S9) (LRR K, L)	
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick	Dark Surface (A12)		Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sand	y Mucky Mineral (S1)		Redox Dark Sur	face (F6))		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	y Gleyed Matrix (S4)		Depleted Dark S				Red Parent Mate		
	y Redox (S5)		Redox Depressi		,			rk Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR				Other (Explain in Remarks)		
	Surface (S7)			, _/			Otilor (Explain in	. Homano,	
Bank	Curiaco (Cr)								
³ Indicators	s of hydrophytic vegeta	tion and w	etland hydrology mus	t be pres	sent, unles	s disturbe	ed or problematic.		
	e Layer (if observed)	:							
Type: s	stone material								
Depth (i	inches):						Hydric Soil Present?	Yes No _X	
Remarks:							# ND00 =		
			•	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Field Indica	ators of Hydric Soils version 8.1	
2017 Erra	ta. (http://soils.usda.go	v/use/nyai	10)						

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	City/County: So	merset/Niagara	Sampling Date: 5/5/21			
Applicant/Owner: AES		State:	NY Sampling Point: WA2			
Investigator(s): Drew Timmis	Section, Townsh	nip, Range:				
Landform (hillside, terrace, etc.): depression	Local relief (conca	ve, convex, none): Concave	Slope (%): 0-6			
Subregion (LRR or MLRA): LRR L	Lat: 43.356783	Long: -78.576046	Datum: WGS 84			
	coil Map Unit Name: Wayland soils complex, 0 to 3 percent slopes, frequently flooded NWI classification:					
<u></u>						
Are climatic / hydrologic conditions on the site typic	-	X No (If no, explain				
	· ·	Are "Normal Circumstances" pro				
Are Vegetation, Soil, or Hydrolog	ynaturally problematic?	(If needed, explain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach site	map showing sampling poin	nt locations, transects, i	important features, etc.			
Hydrophytic Vegetation Present? Yes	X No Is the Sam	pled Area				
Hydric Soil Present? Yes	X No within a We	etland? Yes X	No			
Wetland Hydrology Present? Yes_	X No If yes, optio	nal Wetland Site ID:				
forested wetland/floodplain along section of fish c	reek					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface So	il Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	X Drainage P				
High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)			
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu				
X Sediment Deposits (B2) X Drift Deposits (B3)	Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)		Visible on Aerial Imagery (C9) Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S		ic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aq	` '			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		raphic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	other (Explain in Remarks)		al Test (D5)			
Field Observations:						
	X Depth (inches):					
Surface Water Present? Yes No Water Table Present? Yes No	X Depth (inches):					
	X Depth (inches):	Wetland Hydrology Present	t? Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspec	tions), if available:				
Remarks:						
Nemarks.						

VEGETATION – Use scientific names of plants. Sampling Point: WA2 Dominant Indicator Absolute Tree Stratum (Plot size: **Dominance Test worksheet:** % Cover Species? Status Populus deltoides 30 Yes FAC **Number of Dominant Species** Yes 20 **FACW** That Are OBL, FACW, or FAC: 2. Fraxinus pennsylvanica (A) 15 Acer saccharum Yes **FACU Total Number of Dominant** Species Across All Strata: 4. 6 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B) Prevalence Index worksheet: 65 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = **FACW** species x 2 = Cornus amomum 30 2. FAC species x 3 = 90 3. FACU species 15 x 4 = 0 4. UPL species x 5 = 0 5. Column Totals: 100 (A) 260 (B) Prevalence Index = B/A = 2.60 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 15 **FACW** X 3 - Prevalence Index is ≤3.0¹ Yes Impatiens capensis Yes **FACW** 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 10 3. Onoclea sensibilis Yes **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 35 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic Vegetation No Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA2

Profile Description: (Describe to the depth needed to document the indicator or confined by the Depth Matrix Redox Features					irm the absence o	f indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 3/2	100			<u> </u>		Loamy/Clayey		
4-8	10YR 4/1	100					Loamy/Clayey		
8-14	7.5YR 5/2	90	10YR 4/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	
14-20	7.5YR 5/2	85	10YR 4/6	15	С	М	Loamy/Clayey	Prominent redox concentrations	
1- 0							21		
	Concentration, D=Dep il Indicators:	letion, RN	/I=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand		cation: PL=Pore Lining, M=Matrix.	
•	ol (A1)		Polyvalue Below	Surface	(S9) (I DI	D D		or Problematic Hydric Soils ³ : ck (A10) (LRR K, L, MLRA 149B)	
	Epipedon (A2)		MLRA 149B)	Surface	(30) (LKI	χĸ,	·	rairie Redox (A16) (LRR K, L, R)	
			,	00 (20) (DD D M	I D A 1401			
	Histic (A3)		Thin Dark Surface					cky Peat or Peat (S3) (LRR K, L, R)	
	gen Sulfide (A4)		High Chroma Sa			-		e Below Surface (S8) (LRR K, L)	
	ied Layers (A5)	(8.4.4)	Loamy Mucky M			., L)	Thin Dark Surface (S9) (LRR K, L)		
	ted Below Dark Surfac	e (A11)	Loamy Gleyed N		<u>'</u> .)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	Dark Surface (A12)		X Depleted Matrix					t Floodplain Soils (F19) (MLRA 149B)	
	Mucky Mineral (S1)		Redox Dark Sur	` '			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Gleyed Matrix (S4)		Depleted Dark S		- 7)		Red Parent Material (F21)		
Sandy	Redox (S5)		Redox Depressi	ons (F8)			Very Shallow Dark Surface (TF12)		
Stripp	ed Matrix (S6)		Marl (F10) (LRR	(K, L)			Other (Explain in Remarks)		
Dark \$	Surface (S7)								
³ Indicators	of hydrophytic vegeta	tion and w	vetland hydrology mus	t be pres	ent, unles	s disturbe	ed or problematic.		
Restrictive Type:	e Layer (if observed):								
Depth (ii	nches):						Hydric Soil Pre	esent? Yes X No	
Remarks:							L		
			-	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1	
2017 Errat	a. (http://soils.usda.go	v/use/hyd	ric)						

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	C	City/County: Somerset/Niagara	Sam	npling Date: 5/5/21
Applicant/Owner: AES			State: NY	Sampling Point: UA2
Investigator(s): Drew Timmis	S	ection, Township, Range:		
Landform (hillside, terrace, etc.):	Hillside Loc	al relief (concave, convex, none):	Convex	Slope (%): 2-6
Subregion (LRR or MLRA): LRR		Long: -78.576		Datum: WGS 84
Soil Map Unit Name: Hudson silt			NWI classification	
·		Vac V Na /	_	
	s on the site typical for this time of year?			
	, or Hydrologysignificantly of		•	
Are Vegetation, Soil	, or Hydrologynaturally prob	olematic? (If needed, explain	any answers in Rer	marks.)
SUMMARY OF FINDINGS	- Attach site map showing sa	mpling point locations, tr	ansects, impo	rtant features, etc.
Hydrophytic Vegetation Present?	? Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes No X	within a Wetland?	YesN	loX
Wetland Hydrology Present?	Yes No X	If yes, optional Wetland Site ID):	
HYDROLOGY				
Wetland Hydrology Indicators:	:	Sec		(minimum of two required)
•	one is required; check all that apply)		_Surface Soil Crack	, ,
Surface Water (A1)	Water-Stained Le	` '	Drainage Patterns	
High Water Table (A2)	Aquatic Fauna (B	•	_Moss Trim Lines (` ,
Saturation (A3)	Marl Deposits (B1		_ Dry-Season Wate	
Water Marks (B1)	Hydrogen Sulfide		_ Crayfish Burrows	
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Redu	heres on Living Roots (C3)	Stunted or Stresse	on Aerial Imagery (C9)
Algal Mat or Crust (B4)		uction in Tilled Soils (C6)	Geomorphic Posit	
Iron Deposits (B5)	Thin Muck Surface	` '	Shallow Aquitard (
Inundation Visible on Aerial			Microtopographic	` '
Sparsely Vegetated Concav			FAC-Neutral Test	, ,
Field Observations:				()
	Yes No X Depth (inches):			
Water Table Present?	Yes No X Depth (inches): Yes No X Depth (inches):			
	Yes No X Depth (inches):		ogy Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream	n gauge, monitoring well, aerial photos, p	revious inspections), if available:		
Remarks:				

30	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
			· ·
			Total Number of Dominant
			Species Across All Strata: 4 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 25.0% (A/B)
			Prevalence Index worksheet:
30	=Total Cover		Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
		FACU	FACW species 20 x 2 = 40
		UPL	FAC species 0 x 3 = 0
		FACU	FACU species 55 x 4 = 220
			UPL species0 x 5 =0
			Column Totals: 75 (A) 260 (B)
			Prevalence Index = B/A = 3.47
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
20	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
15	Yes	FACU	4 - Morphological Adaptations (Provide supporting
10	Yes	FACU	data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
	<u> </u>		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
45	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in
	<u> </u>		height.
			Undrankatia
			Hydrophytic Vegetation
			Present? Yes No X
	=Total Cover		
	20 15 10	30 =Total Cover =Total Cover 20 Yes 15 Yes 10 Yes 45 =Total Cover	30 =Total Cover FACU UPL FACU =Total Cover 20 Yes FACU 15 Yes FACU 10 Yes FACU 45 =Total Cover

SOIL Sampling Point: UA2

Profile De	scrintion: (Describe	to the de	nth needed to docum	nent the	indicato	r or confi	irm the absence of	indicators)			
Profile Description: (Describe to the depth needed to document the indicator or confidence of Depth Matrix Redox Features					01 001111		indicators.)				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-10	10YR 4/3	100					Loamy/Clayey				
10-15	10YR 5/3	100					Loamy/Clayey				
15-20	10YR 5/2	95	10YR 4/6	5	<u> </u>	M	Loamy/Clayey	Prominent redox concentration	ns		
l											
1Type: C-	Concentration, D=Dep	letion PM	I-Paducad Matrix CS	-Covere	ed or Coat	ed Sand (Grains ² Loo	ation: PL=Pore Lining, M=Matrix.			
	il Indicators:	netion, Kiv	i=Reduced Matrix, C3	=Covere	eu oi Coat	eu Sanu (r Problematic Hydric Soils ³ :			
_	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	Epipedon (A2)		MLRA 149B)		` , `		Coast Prairie Redox (A16) (LRR K, L, R)				
Black	Histic (A3)		Thin Dark Surfac	e (S9) (I	LRR R, M	LRA 149E					
Hydro	gen Sulfide (A4)		High Chroma Sa	nds (S1	1) (LRR K	, L)	Polyvalue Below Surface (S8) (LRR K, L)				
	ied Layers (A5)		Loamy Mucky Mi			(, L)	Thin Dark Surface (S9) (LRR K, L)				
	ted Below Dark Surfac	e (A11)	Loamy Gleyed M		2)		Iron-Manganese Masses (F12) (LRR K, L, R)				
	Dark Surface (A12)		Depleted Matrix (Piedmont Floodplain Soils (F19) (MLRA 149B)				
	Mucky Mineral (S1)		Redox Dark Surf	` '			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Gleyed Matrix (S4)		Depleted Dark S	•	-7)		Red Parent Material (F21)				
	Redox (S5) ed Matrix (S6)		Redox Depression				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
	Surface (S7)		Marl (F10) (LRR	K , L)			Other (Explain in Nemarks)				
Bank (Surface (Gr)										
³ Indicators	of hydrophytic vegeta	tion and w	etland hydrology mus	t be pres	sent, unles	s disturbe	ed or problematic.				
	e Layer (if observed)										
Type:											
Depth (ii	nches):						Hydric Soil Pre	sent? Yes No_	X		
Remarks:											
				Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	ld Indicators of Hydric Soils versio	n 8.1		
2017 Errat	a. (http://soils.usda.go	v/use/nyd	ric)								

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/3/21
Applicant/Owner: AES	State: NY Sampling Point: WA3
Investigator(s): Drew Timmis	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): LRR L Lat: 43.35628	Long: -78.576423 Datum: WGS 84
Soil Map Unit Name: Hudson silt loam, 2 to 6 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation , Soil , or Hydrology signific	
	
Are Vegetation, Soil, or Hydrologynatura SUMMARY OF FINDINGS – Attach site map showing	Ily problematic? (If needed, explain any answers in Remarks.) ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate re An expansive wetland that goes from forested area to scrub/shrub	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	
I 	ned Leaves (B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fa April Deposit	
X Saturation (A3) Marl Depos Water Marks (B1) Hydrogen S	sits (B15) Dry-Season Water Table (C2) Sulfide Odor (C1) Crayfish Burrows (C8)
	hizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
 -	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	n Reduction in Tilled Soils (C6) Geomorphic Position (D2)
l 	Surface (C7) Shallow Aquitard (D3)
	lain in Remarks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	<u> </u>
Surface Water Present? Yes X No Depth (in	ches):1
Surface Water Present? Yes X No Depth (in Water Table Present? Yes No X Depth (in Saturation Present? Yes X No Depth (in	ches):
	ches): 2 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks: Buttress tree base, shallow roots	

VEGETATION – Use scientific names of plants. Sampling Point: WA3 Dominant Indicator Absolute **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: % Cover Species? Status Fraxinus pennsylvanica 30 **FACW** Yes **Number of Dominant Species** Populus deltoides FAC That Are OBL, FACW, or FAC: 2. 25 Yes 3 (A) 15 Acer saccharinum No **FACW Total Number of Dominant** Species Across All Strata: 10 **FACU** 4. Acer saccharum No (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACU FACW** species x 2 = Lonicera morrowii **FACW** 25 2. Cornus amomum Yes FAC species x 3 = 75 3. FACU species 35 x 4 = 140 0 4. UPL species x 5 = 0 5. Column Totals: 120 (A) 335 (B) Prevalence Index = B/A = 2.79 **Hydrophytic Vegetation Indicators:** 40 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes X No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA3

Profile De	escription: (Describe Matrix	to the de		ment the		r or confi	irm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-10	10YR 4/2	100	Color (molety		1,700		Loamy/Clayey	moist	
10-20	10YR 5/2	80	10YR 4/6	15	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 2/2	5	С	М		Distinct redox concentrations	
	-								
1	-						- 2		
	=Concentration, D=Dep oil Indicators:	letion, RI	M=Reduced Matrix, CS	S=Covere	d or Coat	ed Sand (cation: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :	
-	sol (A1)		Polyvalue Below	Surface	(S8) (LR I	R R.		ck (A10) (LRR K, L, MLRA 149B)	
	Epipedon (A2)		MLRA 149B)	Canacc	(00) (=11.	,		airie Redox (A16) (LRR K, L, R)	
Black Histic (A3)			Thin Dark Surface	ce (S9) (L	RR R, M	LRA 1491		cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen Sulfide (A4)			High Chroma Sa					e Below Surface (S8) (LRR K, L)	
Stratified Layers (A5)			Loamy Mucky M	ineral (F1) (LRR K	(, L)	Thin Dark	k Surface (S9) (LRR K, L)	
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed N	latrix (F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sand	y Mucky Mineral (S1)		Redox Dark Sur	face (F6)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sand	y Gleyed Matrix (S4)		Depleted Dark S	Surface (F	7)		Red Parent Material (F21)		
Sand	y Redox (S5)		Redox Depressi	ons (F8)			Very Shallow Dark Surface (TF12)		
Stripp	oed Matrix (S6)		Marl (F10) (LRR	K, L)			Other (Explain in Remarks)		
Dark	Surface (S7)								
³ Indicator	s of hydrophytic vegeta	tion and s	votland bydrology mus	t ha proc	ont unloc	e dieturb	ad ar problematic		
	e Layer (if observed):		vetiand hydrology mus	t be pres	ent, unies	s disturbe	ed of problematic.		
	stone material								
Depth (i	inches):						Hydric Soil Pre	esent? Yes X No No	
Remarks:							•		
			-	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1	
2017 Erra	ta. (http://soils.usda.go	v/use/hyd	Iric)						

Project/Site: Somerset Solar		Ci	ity/County: Son	nerset/Niagara		Sampling Date: 5	/3/21		
Applicant/Owner: AES					State:	NY Sampling Po	oint: UA3		
Investigator(s): Drew Timmis		Se	ection, Townshi	p, Range:					
Landform (hillside, terrace, etc.	.): terrace	Loca	al relief (concav	e, convex, none):	: Convex	Slope	(%): 4		
Subregion (LRR or MLRA): LF	RR L Lat:	: 43.356442		Long: -78.576	6328	Datum:	WGS 84		
Soil Map Unit Name: Hudson	_			_	NWI classific				
Are climatic / hydrologic conditi	•	•	Yes	X No					
· -	, or Hydrology	-		re "Normal Circui			(No		
	, or Hydrology			f needed, explain	·				
SUMMARY OF FINDING					-		es, etc.		
Hydrophytic Vegetation Prese	ent? Yes	No X	Is the Samp	led Area					
Hydric Soil Present?	Yes	No X	within a Wet		Yes	No X			
Wetland Hydrology Present?	Yes	No X		al Wetland Site II		-			
Remarks: (Explain alternative	procedures here or in a	separate report.)							
HYDROLOGY									
Wetland Hydrology Indicato	rs:			<u>Se</u>	condary Indica	tors (minimum of two	o required)		
Primary Indicators (minimum	of one is required; check				Surface Soil				
Surface Water (A1)		_Water-Stained Lea			Drainage Pat				
High Water Table (A2)	<u>—</u>	_Aquatic Fauna (B1			Moss Trim Lines (B16)				
Saturation (A3)		Marl Deposits (B1				Water Table (C2)			
Water Marks (B1)		_Hydrogen Sulfide (Crayfish Buri				
Sediment Deposits (B2)		Oxidized Rhizosph	_	Roots (C3)		sible on Aerial Image	ery (C9)		
Drift Deposits (B3)		Presence of Redu	, ,	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)		Recent Iron Reduc		oils (C6)					
Iron Deposits (B5)	(57)	Thin Muck Surface			Shallow Aquitard (D3)				
Inundation Visible on Aer	<u> </u>	Other (Explain in F	Remarks)	_		aphic Relief (D4)			
Sparsely Vegetated Cond	ave Surface (B8)		1		FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present?	Vaa Na V	Donth (inches)							
Water Table Present?	Yes No X Yes No X	Depth (inches): Depth (inches):							
Saturation Present?	Yes No X	Depth (inches):		Wetland Hydro	logy Procent?	Yes	No X		
(includes capillary fringe)	165 NO_X	Deptil (illiches)		Wetiana nyaro	logy Fresent:		NO		
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, pr	revious inspecti	ions), if available:	-				
2 0001120 1 10001202 2 2 2 2	a gaage,eeg	o., aona. po.oo, p.			•				
Remarks:									

VEGETATION – Use scientific names of plants. Sampling Point: UA3 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Acer saccharum 25 Yes **FACU Number of Dominant Species** Yes 20 **FACU** That Are OBL, FACW, or FAC: 2. Fraxinus americana 0 (A) Fagus grandifolia 35 Yes **FACU Total Number of Dominant** Species Across All Strata: 4. 6 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = **FACU FACW** species x 2 = Lonicera morrowii Yes UPL 0 2. Crataegus desueta FAC species x 3 = 0 3. FACU species 140 x 4 = 560 4. UPL species 20 x 5 = 100 5. Column Totals: 160 (A) 660 (B) Prevalence Index = B/A = 4.13 **Hydrophytic Vegetation Indicators:** 70 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 10 Alliaria petiolata **FACU** 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 7. 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 10 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic 3. Vegetation Yes No X Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UA3

Profile Dec	arintian. (Describe	to the de	pth needed to docui	mont the	indicato	r or confi	irm the absence of	f indicators \			
Depth	Matrix	to the de	-	x Feature		or com	iriii tile abselice oi	indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-5	10YR 4/4	100	Color (molet)	70	Турс		Loamy/Clayey	Romano			
5-10	10 TR 4/4	100					Loamy/Clayey				
10-20	10YR 5/4	90	10YR 5/6	10	С	M	Loamy/Clayey	Distinct redox concentrations			
	_										
1											
	Concentration, D=Dep	oletion, RN	1=Reduced Matrix, CS	=Covere	ed or Coat	ed Sand (r Problematic Hydric Soils ³ :			
Histoso			Polyvalue Below	Surface	(S8) (I RI	R R		ck (A10) (LRR K, L, MLRA 149B)			
	Epipedon (A2)		MLRA 149B)	Canacc	(00) (EI	,	Coast Prairie Redox (A16) (LRR K, L, R)				
	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R. M	LRA 1491		cky Peat or Peat (S3) (LRR K, L, R)			
	gen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)			
Stratified Layers (A5)			Loamy Mucky M			-		k Surface (S9) (LRR K, L)			
	ed Below Dark Surfac	e (A11)	Loamy Gleyed N				Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick D	Dark Surface (A12)		Depleted Matrix	(F3)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)			
Sandy	Mucky Mineral (S1)		Redox Dark Sur	face (F6))		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy	Gleyed Matrix (S4)		Depleted Dark S	Surface (F	- 7)		Red Parent Material (F21)				
	Redox (S5)		Redox Depressi				Very Shallow Dark Surface (TF12)				
	ed Matrix (S6)		Marl (F10) (LRR	K , L)			Other (Explain in Remarks)				
Dark S	urface (S7)										
³ Indicators (of hydrophytic yogoto	tion and w	otland hydrology mus	t ha proc	ont unloc	e dieturb	ad or problematic				
	Layer (if observed)		vetland hydrology mus	t be pres	sent, unies	s distuibe	ed of problematic.				
Type:	Luyer (ii observeu)										
Depth (in	ches):						Hydric Soil Pre	sent? Yes No X			
Remarks:							1				
	s revised from Northo	entral and	Northeast Regional S	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1			
	a. (http://soils.usda.go		•	• •				,			

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/4/21
Applicant/Owner: AES	State: NY Sampling Point: WA4
Investigator(s): Drew Timmis	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.34833	Long: -78.57521 Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes X No (If no, explain in Remarks.)
	ntly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally	
<u> </u>	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate reports lsolated drainage collection	ort.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
X Surface Water (A1) X Water-Staine	
High Water Table (A2) Aquatic Faur	
X Saturation (A3)Marl Deposit	
	ulfide Odor (C1) Crayfish Burrows (C8) zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Si	· · · · · · · · · · · · · · · · · · ·
	in in Remarks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inch	nes):7
Water Table Present? Yes No X Depth (inch	
Saturation Present? Yes X No Depth (inch	nes): 2 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	to an action of the salable
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2.	_			That Are OBL, FACW, or FAC:1 (A)
3.	_			Total Number of Dominant
4				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7	_	T 0		Prevalence Index worksheet:
Conline (Charle Charles (Diet sine)		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				OBL species 25 x 1 = 25
1. 2.				FACW species 0 x 2 = 0 FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
4.	-			UPL species 0 x 5 = 0
-	-			Column Totals: 25 (A) 25 (B)
· -				Prevalence Index = B/A = 1.00
6				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		= rotal Gover		X 2 - Dominance Test is >50%
	25	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2		100	<u> </u>	4 - Morphological Adaptations ¹ (Provide supportin
				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				_
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30)			Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a set several cover types observed but all connected by western portions are dominated by reed canary graspecies.	surficial draina			ore dominated by dogwoods in southeastern area, rea sparesly vegetated by emergent and mainly tree

SOIL Sampling Point: WA4

	escription: (Describe	to the de	-			r or conf	irm the absence o	of indicators.)			
Depth (inches)	Matrix Color (moist)	0/	Color (moist)	x Feature %		Loc ²	Texture	Remarks			
(inches)		<u>%</u>	Color (moist)	- 76	Type ¹	LOC		-			
0-3	10YR 4/1	100					Loamy/Clayey	saturated			
3-8	10YR 6/2	90	10YR 4/6	10	<u>C</u>	M	Loamy/Clayey	Prominent redox concentration	ons		
8-14	5YR 6/2	100					Loamy/Clayey				
					<u> </u>						
								-			
	-Concentration, D=Dep	letion, RN	√=Reduced Matrix, CS	=Covere	ed or Coat	ed Sand		ocation: PL=Pore Lining, M=Matrix			
-	oil Indicators:							or Problematic Hydric Soils ³ :			
	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	₹R,		uck (A10) (LRR K, L, MLRA 149B))		
	Epipedon (A2)		MLRA 149B)					rairie Redox (A16) (LRR K, L, R)			
	Histic (A3)		Thin Dark Surfac					ucky Peat or Peat (S3) (LRR K, L,	R)		
Hydro	ogen Sulfide (A4)		High Chroma Sai	nds (S1	1) (LRR K	., L)	Polyvalu	ue Below Surface (S8) (LRR K, L)			
Stratif	fied Layers (A5)		Loamy Mucky Mi	neral (F	1) (LRR K	(, L)	Thin Da	rk Surface (S9) (LRR K, L)			
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed M	atrix (F2	2)		Iron-Mar	nganese Masses (F12) (LRR K, L ,	R)		
Thick	Dark Surface (A12)		X Depleted Matrix ((F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sand	y Mucky Mineral (S1)		Redox Dark Surfa	ace (F6))		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	y Gleyed Matrix (S4)		Depleted Dark St				Red Parent Material (F21)				
	y Redox (S5)		Redox Depression				Very Shallow Dark Surface (TF12)				
	ped Matrix (S6)		? Marl (F10) (LRR				Other (Explain in Remarks)				
	Surface (S7)			11, =/			Other (Explain in Remarks)				
	s of hydrophytic vegeta		vetland hydrology must	t be pres	sent, unles	s disturb	ed or problematic.				
Type:	e Layer (if observed):										
_	inches):						Hydric Soil Pro	esent? Yes X No			
Remarks:							1,	<u></u>			
		entral and	d Northeast Regional S	upplem:	ent Versio	n 2.0 to r	eflect the NRCS Fi	eld Indicators of Hydric Soils version	on 8.1		
	ta. (http://soils.usda.go							·			

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara	s	Sampling Date: 5/4/21			
Applicant/Owner: AES					State: N	Y Sampling Point:	UA4		
Investigator(s): Drew Timmis		Se	ection, Townsh	nip, Range:					
Landform (hillside, terrace, etc.): Hillside	Loca	al relief (conca	ve, convex, none	e): convex	Slope (%):	0-2		
Subregion (LRR or MLRA): LF		: 43.354613	`	Long: -78.57		Datum: WGS			
	_				NWI classificat		<u>. </u>		
Soil Map Unit Name: Niagara						-			
Are climatic / hydrologic conditi		•	_		(If no, explain in I				
	, or Hydrology				umstances" prese				
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (If needed, explai	in any answers in l	Remarks.)			
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poir	nt locations,	transects, imp	portant features, et	c.		
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Samp	oled Area					
Hydric Soil Present?	Yes	No X	within a We	etland?	Yes	No X			
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site	ID:				
HYDROLOGY									
Wetland Hydrology Indicato				<u>S</u>	•	rs (minimum of two requir	<u>red)</u>		
Primary Indicators (minimum	of one is required; check		(50)	-	Surface Soil C	, ,			
Surface Water (A1)		Water-Stained Lea	` '	_	Drainage Patte				
High Water Table (A2)		_Aquatic Fauna (B1							
Saturation (A3)		Marl Deposits (B1		_					
Water Marks (B1) Sediment Deposits (B2)		_Hydrogen Sulfide Oxidized Rhizosph		Poots (C3)	Crayfish Burro	ws (Co) ble on Aerial Imagery (C9	۱۱		
Drift Deposits (B3)		Presence of Redu	_			essed Plants (D1))		
Algal Mat or Crust (B4)		-	` '	Soils (C6)					
Iron Deposits (B5)		Thin Muck Surface	uction in Tilled Soils (C6) Geomorphic Position (D2) ce (C7) Shallow Aquitard (D3)						
Inundation Visible on Aeri	ial Imagery (B7)	Other (Explain in F							
Sparsely Vegetated Cond			toae,	_	FAC-Neutral T	` '			
Field Observations:				_					
Surface Water Present?	Yes No X	Depth (inches):							
Water Table Present?	Yes No X Yes No X	Depth (inches):							
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes No	Χ		
(includes capillary fringe)									
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if available	e:				
Remarks:									
Remarks.									

Tree Stratum (Plot size:			Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(A) (B)
2				That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species	
3				Total Number of Dominant Species Across All Strata: Percent of Dominant Species	
4				Species Across All Strata: 3 Percent of Dominant Species	(B)
5				Percent of Dominant Species	(B)
6					
7. Sapling/Shrub Stratum (Plot size: 15) 1.				I That Are OBL. FACW, or FAC: 0.0%	
Sapling/Shrub Stratum (Plot size: 15) 1.		T-1-1-0			(A/B)
1.				Prevalence Index worksheet:	
1.		=Total Cover		Total % Cover of: Multiply by: OBL species 0 x 1 = 0	—
2					_
				· — —	_
2				FAC species $0 x3 = 0$ FACU species $65 x4 = 260$	_
4.				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_
				Column Totals: 65 (A) 260	— (B)
-				Prevalence Index = B/A = 4.00	(B)
·					
7		=Total Cover		Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)		= Fotal Cover		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%	
	25	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹	
Lolium perenne Taraxacum officinale	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide sup	nortin
	20	Yes	FACU	data in Remarks or on a separate sheet)	portiri
Trifolium pratense 4.		165	TACO	Problematic Hydrophytic Vegetation ¹ (Explain	in)
					
		-		¹ Indicators of hydric soil and wetland hydrology r be present, unless disturbed or problematic.	nust
_				Definitions of Vegetation Strata:	
7. 8.				-	
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of he	eiaht
10.					-
11				Sapling/shrub – Woody plants less than 3 in. D and greater than or equal to 3.28 ft (1 m) tall.	ВН
12.					
	65	=Total Cover		Herb – All herbaceous (non-woody) plants, regal of size, and woody plants less than 3.28 ft tall.	dless
Woody Vine Stratum (Plot size: 30)		. 0.0			
1.				Woody vines – All woody vines greater than 3.2 height.	8 ft in
2.					
3.				Hydrophytic	
4.				Vegetation Present? Yes No X	
· -		=Total Cover		17555III	
Remarks: (Include photo numbers here or on a sepa several cover types observed but all connected by su western portions are dominated by reed canary grass species.	rficial draina				;

SOIL Sampling Point: UA4

		to the de				r or confi	irm the absence of indica	itors.)		
Depth	Matrix	0/		x Feature %		Loc ²	Toyturo	Remarks		
(inches)	Color (moist)	<u>%</u>	Color (moist)	70	Type ¹	LOC	Texture	Remarks		
0-10	10YR 4/4	100					Loamy/Clayey			
10-18	10YR 5/3	100					Loamy/Clayey			
	=Concentration, D=Dep	letion, RM	=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand (Grains. ² Location:	PL=Pore Lining, M=Matrix.		
-	oil Indicators:							ematic Hydric Soils ³ :		
	sol (A1)		Polyvalue Below	Surface	(S8) (LR I	RR,) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)	(CO) (I D A 4401		edox (A16) (LRR K, L, R)		
	(Histic (A3)		Thin Dark Surface					at or Peat (S3) (LRR K, L, R)		
	ogen Sulfide (A4) fied Layers (A5)	•	High Chroma Sa Loamy Mucky M			-		Surface (S8) (LRR K, L) ce (S9) (LRR K, L)		
	eted Below Dark Surfac	Δ(Δ11)	Loamy Gleyed N			, L)		Masses (F12) (LRR K, L, R)		
	Dark Surface (A12)	e (A11)	Depleted Matrix		-)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ly Mucky Mineral (S1)	•	Redox Dark Sur		1			A6) (MLRA 144A, 145, 149B)		
	ly Gleyed Matrix (S4)	•	Depleted Dark S				Red Parent Material (F21)			
	y Redox (S5)	•	Redox Depressi		.,		Very Shallow Dark Surface (TF12)			
	ped Matrix (S6)	•	Marl (F10) (LRR				Other (Explain in Remarks)			
	Surface (S7)	•	(: 10) (=111	, -/			Other (Explain in Remarks)			
	- Canada (C.)									
³ Indicators	s of hydrophytic vegeta	tion and w	etland hydrology mus	t be pres	sent, unles	s disturbe	ed or problematic.			
	e Layer (if observed):	1								
Type:										
	inches):						Hydric Soil Present?	Yes No _X		
Remarks:		ontrol and	Northoast Pagional 9	Supplem	ont Varaia	n 2 0 to ro	ofloat the NBCS Field India	otors of Hydria Saila varaion 9.1		
	ris revised from Northc ita. (http://soils.usda.go		_	suppleme	ent versio	11 2.0 10 16	ellect the NKC3 Fleid Indic	ators of Hydric Soils version 8.1		
ZOTT ZITA	na. (mp.//oono.doda.go	v, acc, i i y ai	10)							

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21
Applicant/Owner: AES	State: NY Sampling Point: WA5
Investigator(s): Drew Timmis	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.345223	Long: -78.579919 Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrologysignification, signification, signification	
Are Vegetation, Soil, or Hydrologynaturall	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	port.)
forested swamp	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
X Surface Water (A1) X Water-Stain	
X High Water Table (A2) Aquatic Fau	na (B13) X Moss Trim Lines (B16)
Saturation (A3) Marl Deposi	its (B15) Dry-Season Water Table (C2)
X Water Marks (B1) X Hydrogen S	ulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rh	nizospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
	f Reduced Iron (C4) Stunted or Stressed Plants (D1)
1 — · · · · · —	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	
 -	ain in Remarks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
	ches): 3
Water Table Present? Yes X No Depth (inc	
Saturation Present? Yes No X Depth (inc	ches): Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	ntos pravious inspections) if available:
Describe Necorded Data (Stream gauge, monitoring well, aerial pric	nos, previous inspections), il avaliable.
Remarks:	

	lants.			Sampling Point: WA5
ree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Populus deltoides	20	Yes	FAC	Number of Dominant Species
. Fraxinus pennsylvanica	50	Yes	FACW	That Are OBL, FACW, or FAC:3 (A
. Acer rubrum	15	No	FAC	Total Number of Dominant
. <u> </u>				Species Across All Strata: 3 (B
i				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A
				Prevalence Index worksheet:
· -		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			OBL species 20 x 1 = 20
	,			FACW species 50 $\times 2 = 100$
				'
-				FACULTURE 35 x 3 = 105
i				FACU species 0 x 4 = 0
·				UPL species0 x 5 =0
·				Column Totals: 105 (A) 225
i				Prevalence Index = B/A = 2.14
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				X 2 - Dominance Test is >50%
. Scirpus cyperinus	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide suppor
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
· i				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
. <u> </u>				Definitions of Vegetation Strata:
				_
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
0.				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				and greater than or equal to 6.25 it (1 m) tall.
z	20	=Total Cover		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30)			Woody vines All woody vines greater than 2.29 f
				Woody vines – All woody vines greater than 3.28 f height.
				3
				Hydrophytic
				Vegetation Present? Yes X No
				Present? Yes X No No
		=Total Cover		

SOIL

WA5

Profile Des Depth	scription: (Describe Matrix	to the de	epth needed to docur Redo:	nent the x Feature		r or conf	firm the absence o	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-14	10YR 4/1	85	10YR 4/6	15	C	M	Loamy/Clayey	saturated soils	
14-20	10YR 4/2	65	10YR 4/6	45	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations	
		·							
		letion, RI	M=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand		cation: PL=Pore Lining, M=Matrix.	
Histos	I Indicators:		Polyvalue Below	Surface	(S8) (I R	R R.		or Problematic Hydric Soils ³ : ck (A10) (LRR K, L, MLRA 149B)	
	Epipedon (A2)		MLRA 149B)	Cunaco	(00) (=11)	,		airie Redox (A16) (LRR K, L, R)	
Black Histic (A3)			Thin Dark Surface	ce (S9) (L	RR R, M	LRA 149		cky Peat or Peat (S3) (LRR K, L, R)	
X Hydrog	gen Sulfide (A4)		High Chroma Sa	ınds (S11	I) (LRR K	(, L)	Polyvalue	e Below Surface (S8) (LRR K, L)	
	ed Layers (A5)		Loamy Mucky M			(, L)		k Surface (S9) (LRR K, L)	
	ed Below Dark Surfac	e (A11)	Loamy Gleyed M		2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	Dark Surface (A12)		X Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B)		
	Mucky Mineral (S1)		Redox Dark Surf	` '			Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)		
	Gleyed Matrix (S4) Redox (S5)		Depleted Dark S Redox Depression		-7)		Very Shallow Dark Surface (TF12)		
	ed Matrix (S6)		Marl (F10) (LRR				Other (Explain in Remarks)		
	Surface (S7)			14, =/				Aprair in Normanio)	
³ Indicators	of hydrophytic yegeta	tion and v	wetland hydrology mus	t be pres	ent. unles	ss disturb	ed or problematic.		
	Layer (if observed)		, , , , , , , , , , , , , , , , , , , ,		,				
Type:									
Depth (in	iches):						Hydric Soil Pre	esent? Yes X No No	
	s revised from Northo a. (http://soils.usda.go		•	Suppleme	ent Versio	n 2.0 to r	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1	

Project/Site: Somerset Solar	City/County: So	omerset/Niagara	Sampling Date: 5/6/21
Applicant/Owner: AES		State:	NY Sampling Point: UA5
Investigator(s): Drew Timmis	Section, Towns	hip, Range:	
Landform (hillside, terrace, etc.): terrace	Local relief (conca	ave, convex, none): convex	Slope (%): 2-4
	at: 43.345166	Long: -78.579996	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 2 to 6 percer		NWI classi	
Are climatic / hydrologic conditions on the site typical f		X No (If no, explain	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" pr	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answers int locations, transects,	
Hydrophytic Vegetation Procent?	No. V. In the Sam	anled Area	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X Is the Sam	•	No X
Wetland Hydrology Present? Yes X		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface So	oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
X High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4)	- · · · · · · · · · · · · · · · · · · ·	Visible on Aerial Imagery (C9) Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_ ` ` ` ` ` `	FAC-Neutr	al Test (D5)
Field Observations:			
Surface Water Present? Yes No _ X	Depth (inches):		
Water Table Present? Yes X No	Depth (inches): 8		
l ————————————————————————————————————	Depth (inches):	Wetland Hydrology Present	t? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Nondria.			

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Acer saccharum	30	Yes	FACU	Number of Dominant Species			
2. Quercus rubra	30	Yes	FACU	That Are OBL, FACW, or FAC:	1	(A)	
3. Acer rubrum	15	No	FAC	Total Number of Dominant		_	
4. Fraxinus pennsylvanica	10	No	FACW	Species Across All Strata:	5	(B)	
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	20.0%	(A/B)	
7.				Prevalence Index worksheet:			
•	85	=Total Cover		Total % Cover of:	Multiply by:		
Sapling/Shrub Stratum (Plot size: 15		_		OBL species 0 x 1 =	= 0	_	
1. Lonicera morrowii	35	Yes	FACU	FACW species 35 x 2 =	= 70		
2.				FAC species 15 x 3 =	= 45	_	
3.				FACU species 115 x 4 =	= 460	_	
4.				UPL species 0 x 5 =	= 0		
 5.	-			Column Totals: 165 (A)	575	— (B)	
				Prevalence Index = B/A =			
7.				Hydrophytic Vegetation Indicator			
	35	=Total Cover		1 - Rapid Test for Hydrophytic			
Herb Stratum (Plot size: 5)		_ Total Cover		2 - Dominance Test is >50%	vegetation		
· · · · · · · · · · · · · · · · · · ·	0.5	V	EA C\A/	1 			
1. Phalaris arundinacea	25	Yes	FACW	3 - Prevalence Index is ≤3.0¹			
2. Taraxacum officinale	20	Yes	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
3. 4.				Problematic Hydrophytic Veget	·		
5 6		<u> </u>		¹ Indicators of hydric soil and wetlan be present, unless disturbed or prol		must	
7.				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm)			
9.	-			diameter at breast height (DBH), re	gardiess of r	neignt.	
10 11				Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft		ЭВН	
12				Herb – All herbaceous (non-woody)) nlants rega	ardless	
	45	=Total Cover		of size, and woody plants less than		2101000	
Woody Vine Stratum (Plot size: <u>30</u>) 1.				Woody vines – All woody vines green height.	eater than 3.2	28 ft in	
2.							
3.				Hydrophytic			
4.				Vegetation Present? Yes	No X		
··-		=Total Cover		11030111	<u> </u>		
Remarks: (Include photo numbers here or on a sep several cover types observed but all connected by s		<u> </u>	ls. Areas mo	re dominated by dogwoods in southea	stern area,		
western portions are dominated by reed canary grasspecies.						e	

SOIL Sampling Point: UA5

		to the de				r or confi	irm the absence of ind	icators.)			
Depth	Matrix	0/		x Feature		1 2	Tautuma	Demonto			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-4	10YR 4/3	100					Loamy/Clayey				
4-12	10YR 4/2	80					Loamy/Clayey				
	10YR 5/4	20									
12-18	10YR 5/2	100	_					moist soils			
								_			
											
1	Occasionation D. Don	Latina DM	Dadward Matrix Of				21 (1	or Di Dona Malais M. Malais			
	Concentration, D=Depoil Indicators:	letion, RM	=Reduced Matrix, CS	s=Covere	ed or Coat	ed Sand (n: PL=Pore Lining, M=Matrix. oblematic Hydric Soils ³ :			
-	sol (A1)		Polyvalue Below	Surface	(S8) (I D I	D D		A10) (LRR K, L, MLRA 149B)			
	Epipedon (A2)	•	MLRA 149B)	Surface	(30) (LKI	ν ιν,		Redox (A16) (LRR K, L, R)			
			,								
	Histic (A3)		Thin Dark Surface					Peat or Peat (S3) (LRR K, L, R)			
	ogen Sulfide (A4)		High Chroma Sa			-		low Surface (S8) (LRR K, L)			
	fied Layers (A5)	(0.44)	Loamy Mucky M			, L)	Thin Dark Surface (S9) (LRR K, L)				
	ted Below Dark Surfac	e (A11)	Loamy Gleyed N		<u>2)</u>		Iron-Manganese Masses (F12) (LRR K, L, R)				
	Dark Surface (A12)	•	Depleted Matrix					odplain Soils (F19) (MLRA 149B)			
	y Mucky Mineral (S1)		Redox Dark Sur				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy	y Gleyed Matrix (S4)		Depleted Dark S	Surface (F	- 7)		Red Parent Material (F21)				
Sandy	y Redox (S5)		Redox Depressi	ons (F8)			Very Shallow	Dark Surface (TF12)			
Stripp	ed Matrix (S6)	•	Marl (F10) (LRR	K , L)			Other (Explain	Other (Explain in Remarks)			
Dark	Surface (S7)										
³ Indicators	s of hydrophytic vegeta	tion and w	etland hvdrology mus	t be pres	sent. unles	s disturbe	ed or problematic.				
	e Layer (if observed)		g,		,						
Type: _			<u></u>								
Depth (i	nches):						Hydric Soil Present	t? Yes <u>No X</u>			
Remarks:											
				Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Field In	dicators of Hydric Soils version 8.1			
2017 Errat	ta. (http://soils.usda.go	v/use/hydr	ic)								

Project/Site: Somerset Solar	City/County: Som	nerset/Niagara	Sampling Date: 5/10/21
Applicant/Owner: AES		State:	NY Sampling Point: WA6
Investigator(s): Drew Timmis	Section, Township	p, Range:	
Landform (hillside, terrace, etc.): depression	Local relief (concave	e, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3	<u> </u>	Long: -78.608701	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes		NWI classif	
<u>-</u>			
Are climatic / hydrologic conditions on the site typical for this	_	X No (If no, explain	
Are Vegetation, Soil, or Hydrology	-	re "Normal Circumstances" pre	
Are Vegetation, Soil, or Hydrology	=	f needed, explain any answers t locations, transects, i	
	No Is the Sampl		•
	No within a Wet		No
		al Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate depressional area in fallow field. Tadpoles observed	агате героп.)		
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	eators (minimum of two required)
Primary Indicators (minimum of one is required; check all the			il Cracks (B6)
	ter-Stained Leaves (B9)	X Drainage P	
	ıatic Fauna (B13) l Deposits (B15)	Moss Trim	Lines (B16) n Water Table (C2)
	Irogen Sulfide Odor (C1)	Crayfish Bu	
	dized Rhizospheres on Living		Visible on Aerial Imagery (C9)
l 	sence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)
Algal Mat or Crust (B4)	cent Iron Reduction in Tilled So	oils (C6) Geomorphi	c Position (D2)
Iron Deposits (B5) Thir	n Muck Surface (C7)	Shallow Aq	uitard (D3)
X Inundation Visible on Aerial Imagery (B7) Oth	er (Explain in Remarks)	X Microtopog	raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutra	al Test (D5)
Field Observations:			
	epth (inches): 2		
Water Table Present? Yes X No D		Watland Hidualani Brasset	2 Vaa V Na
	epth (inches):	Wetland Hydrology Present	? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspecti	ons), if available:	
Bosonso (tosorada Bata (choam gaago, monto mg won, a	onal priotoo, providuo inopooli	oney, ir available.	
Remarks:			

VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	<u> </u>
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:1 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
6				That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
1.		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		- Total Gover		OBL species 50 x 1 = 50
1				FACW species 0 x 2 = 0
2				FAC species 10 x 3 = 30
				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 60 (A) 80 (B)
6				Prevalence Index = $B/A = 1.33$
7.				Hydrophytic Vegetation Indicators:
· -		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Ranunculus sceleratus	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Barbarea vulgaris	10	No	FAC	4 - Morphological Adaptations ¹ (Provide supportin
3. Typha angustifolia	10	No	OBL	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydranhydia
3				Hydrophytic Vegetation
4				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa several cover types observed but all connected by so western portions are dominated by reed canary grass species.	urficial draina			

SOIL Sampling Point:

	escription: (Describe	to the de	-			or conf	irm the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature %		Loc ²	Texture	Remarks
(inches)	10YR 3/2	95	10YR 4/6		Type ¹	M		Remarks
0-8			10114/0	5	<u> </u>		Loamy/Clayey	
8-20	10YR 4/2	90	10YR 4/6	10		M	Loamy/Clayey	Prominent redox concentrations
		<u> </u>			<u> </u>			
1 _{T.m.o.} C	Concentration D. Dor	lation DA	A Doduced Metrix CC	Covers	d or Coot		Craina ² L as	cation: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) Polyvalue Below Surface (S8) (LRR R, HLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) X Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Depressions (F8) Marl (F10) (LRR K, L) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Redox Dark Surface (F6) Marl (F10) (LRR K, L) All Carrier Surface (S7) All Carrier Surface (S7)						R R, _RA 149 , L) , L)	Indicators for 2 cm Mu 2 cm Mu Coast Pr 5 cm Mu Polyvalue Thin Dar Iron-Man Piedmon Mesic Sp Red Pare Very Sha Other (Es	or Problematic Hydric Soils ³ : ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B) codic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) explain in Remarks)
Type: _ Depth (inches):						Hydric Soil Pre	esent? Yes X No
Remarks: Data form	· · · · · · · · · · · · · · · · · · ·		-	uppleme	ent Versio	1 2.0 to r	<u> </u>	eld Indicators of Hydric Soils version 8.1

WA6

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara	:	Sampling Date: 5/10	/21
Applicant/Owner: AES					State: N	IY Sampling Point:	: UA6
Investigator(s): Drew Timmis		Se	ection, Townsh	ip, Range:			
Landform (hillside, terrace, etc.): terrace	Loca	al relief (conca	ve, convex, none): convex	Slope (%	b): 2-4
Subregion (LRR or MLRA): LF		: 43.331769	,	Long: -78.60	· -	 Datum: W	
					NWI classifica		
Soil Map Unit Name: Niagara				V N-			
Are climatic / hydrologic conditi		-	_		(If no, explain in		
	, or Hydrology			Are "Normal Circu	umstances" prese	ent? Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (If needed, explai	n any answers in	Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poir	nt locations,	transects, im	portant features	, etc.
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Samp	oled Area			
Hydric Soil Present?	Yes	No X	within a We	etland?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site	ID:		
HYDROLOGY							
Wetland Hydrology Indicato				<u>S</u>		ors (minimum of two re	equired)
Primary Indicators (minimum	of one is required; check				Surface Soil C	, ,	
Surface Water (A1)		_Water-Stained Lea	` '		Drainage Patt		
High Water Table (A2)		_Aquatic Fauna (B1			Moss Trim Lin	` ,	
Saturation (A3)		_Marl Deposits (B1		_		/ater Table (C2)	
Water Marks (B1)		_Hydrogen Sulfide			Crayfish Burro		(00)
Sediment Deposits (B2)		Oxidized Rhizosph	-	Roots (C3)		ible on Aerial Imagery	(C9)
Drift Deposits (B3)		Presence of Redu	, ,			essed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduc		Solis (Cb)	Geomorphic F		
Iron Deposits (B5)	iol Imagany (P7)	_Thin Muck Surface			Shallow Aquita	ohic Relief (D4)	
Inundation Visible on Aeri Sparsely Vegetated Cond		Other (Explain in F	Remarks)		FAC-Neutral	, ,	
	ave Surface (B6)		1		PAC-Neutral	est (D3)	
Field Observations: Surface Water Present?	Voc. No. V	Donth (inches):					
Water Table Present?	Yes No X Yes No X	Depth (inches): Depth (inches):					
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes N	lo X
(includes capillary fringe)	100 X	Dopur (mones).		Welland Hyan	ology i resent.	100	<u> </u>
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if available	a.		
	gg-,g	,, p		,			
Remarks:							
itemarks.							

VEGETATION – Use scientific names of pl	Absolute	Dominant	Indicator	Sampling Point: UA6
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7		Total Causes		Prevalence Index worksheet:
Conline/Chruh Ctrotum / Diet size. 45		=Total Cover		Total % Cover of: Multiply by: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)				
1.				
2. 3.				
				FACU species 25 x 4 = 100 UPL species 60 x 5 = 300
5.				
6				Column Totals: 85 (A) 400 (B) Prevalence Index = B/A = 4.71
· -				
7		=Total Cover		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		= rotal Cover		2 - Dominance Test is >50%
	60	Voc	LIDI	3 - Prevalence Index is ≤3.0 ¹
Lamium purpureum Taraxacum officinale	<u>60</u> 10	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supportin
		No No	FACU	data in Remarks or on a separate sheet)
Lolium perenne 4.	15	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_				Definitions of Vegetation Strata:
7. 8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	85	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)		_10tal 00v0l		
1.				Woody vines – All woody vines greater than 3.28 ft in height.
				······································
3.				Hydrophytic
4.				Vegetation Present? Yes No X
···		=Total Cover		1105 Ht
Remarks: (Include photo numbers here or on a sepa several cover types observed but all connected by s western portions are dominated by reed canary gras species.	urficial draina			

SOIL Sampling Point: UA6

Profile Description: (Describe to the depth needed to document the indicator or con Depth Matrix Redox Features							irm the absence o	of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-10	10YR 4/4	100	Color (Illoist)	70	Туре	LOC	Loamy/Clayey	Remarks			
10-18	10YR 4/4	85	7.5YR 4/6	15	<u> </u>	M	Loamy/Clayey	Distinct redox concentrations			
			_					-			
			_								
¹ Typo: C-	=Concentration, D=Dep	lotion PM	-Poducod Matrix, CS	S-Covere	od or Coat	od Sand (Grains ² Lo	cation: PL=Pore Lining, M=Matrix.			
	oil Indicators:	iletion, Kivi	=Neduced Matrix, Cc	5=Covere	u oi Coai	eu Sanu v		or Problematic Hydric Soils ³ :			
-	sol (A1)		Polyvalue Below	Surface	(S8) (LR I	R R.		ick (A10) (LRR K, L, MLRA 149B)			
	Epipedon (A2)	-	MLRA 149B)		() (,	·	Coast Prairie Redox (A16) (LRR K, L, R)			
	(Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 1491					
	ogen Sulfide (A4)	-	High Chroma Sa				Polyvalue Below Surface (S8) (LRR K, L)				
Strati	ified Layers (A5)	_	Loamy Mucky M	ineral (F	1) (LRR K	(, L)	Thin Dar	Thin Dark Surface (S9) (LRR K, L)			
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed N	/latrix (F2	2)		Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick	Dark Surface (A12)	-	Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sand	ly Mucky Mineral (S1)	-	Redox Dark Sur	face (F6)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	ly Gleyed Matrix (S4)	-	Depleted Dark S		- 7)		Red Parent Material (F21)				
	ly Redox (S5)	-	Redox Depressi				Very Shallow Dark Surface (TF12)				
	ped Matrix (S6)	-	Marl (F10) (LRR	(K, L)			Other (E	xplain in Remarks)			
Dark	Surface (S7)										
3Indiantor	s of hydrophytic vegeta	tion and w	atland bydralagy mug	t ha araa	ont unloc	o dioturb	ad ar problematic				
	ve Layer (if observed):		elianu nyurology mus	t be pres	ent, unies	s disturbe					
Type:	ve Layer (ii observed)	•									
-	inches):						Hydric Soil Pre	esent? Yes No X			
							Hydric 30ii Fit	esent? Yes <u>No X</u>			
Remarks:		ontral and	Northoast Pagional 9	Supploma	ont Varcia	n 2 0 to r	ofloot the NPCS Eig	eld Indicators of Hydric Soils version 8.1			
	ata. (http://soils.usda.go			suppleme	ent versio	11 2.0 10 16	enect the NKCS Fit	eld indicators of riguric Solls version 6.1			
	() ()	, , ,	-,								

Project/Site: Somerset Solar		City/County: So	omerset/Niagara	Sampling Date: 5/10/21
Applicant/Owner: AES			State:	NY Sampling Point: WA7
Investigator(s): Drew Timmis		Section, Towns	hip, Range:	
Landform (hillside, terrace, etc.)	: depression	Local relief (conca	ave, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LR	R L Lat: 43.33	35886	Long: -78.608553	Datum: WGS 84
Soil Map Unit Name: Collamer			NWI classit	fication:
Are climatic / hydrologic condition			X No (If no, explain	
		•	Are "Normal Circumstances" pre	
	, or Hydrology		(If needed, explain any answers	
			int locations, transects,	,
Hydrophytic Vegetation Preser	nt? Yes X N	lo Is the Sam	noled Area	
Hydric Soil Present?		o within a W	•	No
Wetland Hydrology Present?	Yes X N	lo If yes, option	onal Wetland Site ID:	
Remarks: (Explain alternative Forested floodplain/swamp	,			
HYDROLOGY				
Wetland Hydrology Indicator			· · · · · · · · · · · · · · · · · · ·	cators (minimum of two required)
Primary Indicators (minimum o				il Cracks (B6)
Surface Water (A1)		er-Stained Leaves (B9)	X Drainage P	
X High Water Table (A2)		atic Fauna (B13)		Lines (B16)
Saturation (A3)		Deposits (B15)		n Water Table (C2)
X Water Marks (B1)		rogen Sulfide Odor (C1)	Crayfish Bu	
Sediment Deposits (B2) Drift Deposits (B3)		lized Rhizospheres on Livin sence of Reduced Iron (C4)		Visible on Aerial Imagery (C9) Stressed Plants (D1)
Algal Mat or Crust (B4)		ent Iron Reduction in Tilled		ic Position (D2)
Iron Deposits (B5)		Muck Surface (C7)	Shallow Aq	
Inundation Visible on Aeria		er (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Conca		ii (Explaiii iii Neiliaiks)		al Test (D5)
Field Observations:	TVC Guilace (Bo)	1	1 70 Neutr	1 (53 (55)
Surface Water Present?	Voc. No. V. Do	anth (inches):		
Water Table Present?		epth (inches):6		
Saturation Present?		epth (inches):	Wetland Hydrology Present	? Yes X No
(includes capillary fringe)	163 140 20	pui (iiioiies)	Wedalia Hydrology i 1000	.: 163_/
Describe Recorded Data (stream	am dauge, monitoring well, as	rial photos, previous inspe	ctions) if available:	
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: WA7 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Acer negundo 15 Yes FAC **Number of Dominant Species** Populus deltoides 20 FAC That Are OBL, FACW, or FAC: 2. Yes (A) 3. **Total Number of Dominant** Species Across All Strata: 4. 5 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B) Prevalence Index worksheet: 35 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = Salix discolor **FACW** species x 2 = 35 2. FAC species x 3 = 105 3. FACU species 20 x 4 = 0 4. UPL species x 5 = 0 5. Column Totals: 140 (A) 345 (B) Prevalence Index = B/A = 2.46 **Hydrophytic Vegetation Indicators:** 20 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% 55 Phalaris arundinacea Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ Phleum pratense 20 Yes **FACU** 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 10 3. Lythrum salicaria No OBL Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic Vegetation Yes X No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA7

Profile Description: (Describe to the Depth Matrix	-	ment the		r or conf	irm the absence o	f indicators.)		
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5 10YR 3/1 97	10YR 4/6	3	<u> </u>	M	Loamy/Clayey	Tomano		
5-20 10YR 3/2 90	10YR 4/6	10			Loamy/Clayey	Prominent redox concentrations		
	_							
			' <u></u>					
	_							
	_							
¹ Type: C=Concentration, D=Depletion	RM=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand	Grains. ² Loc	cation: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:					Indicators fo	r Problematic Hydric Soils ³ :		
Histosol (A1)	Polyvalue Below	Surface	(S8) (LRF	RR,	·	ck (A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2)	MLRA 149B)	/ -> /-				airie Redox (A16) (LRR K, L, R)		
Black Histic (A3)	Thin Dark Surface					cky Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4) Stratified Layers (A5)	High Chroma Sa Loamy Mucky M			-		e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A1)				, ∟)		iganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)	X Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Mucky Mineral (S1)	Redox Dark Sur				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Gleyed Matrix (S4)	Depleted Dark S				Red Parent Material (F21)			
Sandy Redox (S5)	Redox Depressi	ons (F8)			Very Shallow Dark Surface (TF12)			
Stripped Matrix (S6)	Marl (F10) (LRR	k K, L)			Other (Explain in Remarks)			
Dark Surface (S7)								
31. disentence of headers be discussed at a second	donatha a dhodaala aa aa aa			- d'atamb	. d			
³ Indicators of hydrophytic vegetation ar Restrictive Layer (if observed):	nd wetland hydrology mus	st be pres	ent, unies	s disturb	ed or problematic.			
Type:								
Depth (inches):					Hydric Soil Pre	esent? Yes X No		
Remarks:					<u> </u>			
	and Northeast Regional S	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1		
2017 Errata. (http://soils.usda.gov/use/	hydric)							

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara		Sampling Date: 5	5/10/21
Applicant/Owner: AES					State: N	IY Sampling Po	oint: UA7
Investigator(s): Drew Timmis		Se	ection, Townsh	nip, Range:			
Landform (hillside, terrace, etc.): terrace	Loca	al relief (conca	ve, convex, none	e): convex	Slope	e (%): 2-4
Subregion (LRR or MLRA): LF	· -	: 43.335422	,	Long: -78.60			WGS 84
		10.000 122			NWI classifica		
Soil Map Unit Name: Hamlin s							
Are climatic / hydrologic conditi		-	_		(If no, explain in		
	, or Hydrology			Are "Normal Circ	cumstances" prese	ent? Yes >	X No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? ((If needed, expla	in any answers in	Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poir	nt locations,	transects, im	portant featur	es, etc.
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Sam	pled Area			
Hydric Soil Present?	Yes	No X	within a We	etland?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site	ID:		
HYDROLOGY							
Wetland Hydrology Indicato	rs:			<u>S</u>		ors (minimum of tw	o required)
Primary Indicators (minimum	of one is required; check			<u> </u>	Surface Soil C	, ,	
Surface Water (A1)		_Water-Stained Lea	. ,	_	Drainage Patte		
High Water Table (A2)		_Aquatic Fauna (B1		_	Moss Trim Lin	,	
Saturation (A3)		_Marl Deposits (B1		_		/ater Table (C2)	
Water Marks (B1)		_ Hydrogen Sulfide		- Doots (C2)	Crayfish Burro		(00)
Sediment Deposits (B2)		Oxidized Rhizosph	_	Roots (C3)		ible on Aerial Imag	ery (C9)
Drift Deposits (B3)		Presence of Redu Recent Iron Reduce	, ,	Soile (C6)		essed Plants (D1)	
Algal Mat or Crust (B4) Iron Deposits (B5)		Thin Muck Surface			Geomorphic F Shallow Aquita		
Inundation Visible on Aeri	ial Imagery (B7)	Other (Explain in F		_		hic Relief (D4)	
Sparsely Vegetated Cond		_Other (Explain in r	Nemaiks)	_	FAC-Neutral T	, ,	
	ave ourrace (bo)			_	TAO Neutral I	C31 (D3)	
Field Observations: Surface Water Present?	Vec No Y	Depth (inches):					
Water Table Present?	Yes No X Yes No X	Depth (inches):					
Saturation Present?	Yes No X			Wetland Hydr	ology Present?	Yes	No_X
(includes capillary fringe)	<u></u>						···• <u>···</u>
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if availabl	le:		
,		, , , ,,	·	,,			
Remarks:							
rtomants.							

VEGETATION – Use scientific names of plants	Absolute	Dominant	Indicator	Sampling Point: UA7			
<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:			
				Number of Dominant Species			
2				That Are OBL, FACW, or FAC: 0 (A)			
3.				Total Number of Dominant			
4				Species Across All Strata: 2 (B)			
5.				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 0.0% (A/E			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Conline/Chrish Ctrotum (Dict aire) 45		-10141 00101		· · · · · · · · · · · · · · · · · · ·			
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0			
1				FACW species 0 x 2 = 0			
2				FAC species 0 x 3 = 0			
3.				FACU species 35 x 4 = 140			
4.				UPL species 45 x 5 = 225			
5.				Column Totals: 80 (A) 365 (E			
6				Prevalence Index = B/A = 4.56			
-							
7				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5				2 - Dominance Test is >50%			
1. Lamium purpureum	45	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹			
2. Taraxacum officinale	15	No	FACU	4 - Morphological Adaptations ¹ (Provide supporti			
3. Lolium perenne	20	Yes	FACU	data in Remarks or on a separate sheet)			
4.				Problematic Hydrophytic Vegetation ¹ (Explain)			
-							
				¹ Indicators of hydric soil and wetland hydrology must			
6				be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8				Tree – Woody plants 3 in. (7.6 cm) or more in			
9.				diameter at breast height (DBH), regardless of height			
10.				Sanling/abruh Woody plants loss than 2 in DBH			
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.							
12.		Total Cause		Herb – All herbaceous (non-woody) plants, regardles			
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30)				Woody vines – All woody vines greater than 3.28 ft i			
1				height.			
2							
3				Hydrophytic Vegetation			
4.				Present? Yes No X			
	-	=Total Cover					
Remarks: (Include photo numbers here or on a sepa		= rotal Cover		I			
several cover types observed but all connected by si		age and channe	ls. Areas mo	ore dominated by dogwoods in southeastern area.			
western portions are dominated by reed canary gras							
species.							

SOIL Sampling Point:

SOIL								Sampling Point:	UA7
Profile Des	scription: (Describe	e to the de		ment the		r or confi	firm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-10	10YR 3/2	100			<u>· //</u>		Loamy/Clayey		
10-20	10YR 6/3	90	7.5YR 4/6	10	С	M	Sandy	Prominent redox con	centrations
10-20	10111 0/3		7.5111 %			101	Januy	FIUIIIIIIGHT ICOOX CON	Centianona
		. —		. —					
		. ——							
¹ Type: C=0	Concentration, D=De	pletion, RM	=Reduced Matrix, C	S=Covere	ed or Coa	ted Sand		ation: PL=Pore Lining, M	
•	il Indicators:							Problematic Hydric So	
Histoso	` ,	•	Polyvalue Belov		(S8) (LR	R R,		k (A10) (LRR K, L, MLR	
	Epipedon (A2)		MLRA 149B)					tirie Redox (A16) (LRR K	
	Histic (A3)		Thin Dark Surfa					ky Peat or Peat (S3) (LR	
	gen Sulfide (A4) led Layers (A5)	•	High Chroma Sa Loamy Mucky M			-		Below Surface (S8) (LR Surface (S9) (LRR K, L)	
	ted Below Dark Surfa	ace (A11)	Loamy Gleyed N			·, - /		ganese Masses (F12) (LF	
	Dark Surface (A12)	,	Depleted Matrix		-/			Floodplain Soils (F19) (N	
	Mucky Mineral (S1)	•	Redox Dark Sui)			odic (TA6) (MLRA 144A,	
Sandy	Gleyed Matrix (S4)	·	Depleted Dark S	Surface (F	F7)		Red Parer	nt Material (F21)	
Sandy	Redox (S5)		Redox Depress	ions (F8)			Very Shall	low Dark Surface (TF12)	1
	ed Matrix (S6)	,	Marl (F10) (LRF	₹ K, L)			Other (Exp	plain in Remarks)	
Dark S	Surface (S7)								
3									
	of hydrophytic veget		etland hydrology mus	st be pres	sent, unles	ss disturbe	ed or problematic.		
Type:	e Layer (if observed	1):							
	achae).						Hydric Soil Pres	namt? Van	No. V
	nches):						Hydric Soli Fres	sent? Yes	No X
Remarks:	is ravisad from North	ecentral and	Northoast Pagional	Supplom	ont Vorsic	n 2 0 to r	offect the NPCS Field	d Indicators of Hydric So	ile version 9 1
	a. (http://soils.usda.g			Suppleme	ent versio	11 2.0 10 16	ellect the NKC3 Fleit	a maicalors of Hydric 30	iis version 6. i
	. (.,	,,	,						

Project/Site: Somerset Solar	City/County: Som	nerset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: WA8
Investigator(s): Drew Timmis	Section, Township	p, Range:	
Landform (hillside, terrace, etc.): depression	Local relief (concave	e, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat:	43.354209	Long: -78.580371	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent sl		NWI classifi	
Are climatic / hydrologic conditions on the site typical for		X No (If no, explain	
Are Vegetation , Soil , or Hydrology		re "Normal Circumstances" pre	
		•	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map		f needed, explain any answers t locations, transects, i	
Hydrophytic Vegetation Present? Yes X	No Is the Sampl	ed Area	
Hydric Soil Present? Yes X	No within a Wet		No
Wetland Hydrology Present? Yes X	No If yes, options	al Wetland Site ID:	
Vegetated drainage basin dominated by phragmites			
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check a	••••		il Cracks (B6)
l 	Water-Stained Leaves (B9)	X Drainage Pa	
 -	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim I	n Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
	Oxidized Rhizospheres on Living		Visible on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)		Stressed Plants (D1)
l 	Recent Iron Reduction in Tilled Sc		c Position (D2)
	Thin Muck Surface (C7)	Shallow Aqu	uitard (D3)
X Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	X Microtopogi	raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutra	al Test (D5)
Field Observations:			
Surface Water Present? Yes No X	Depth (inches): 8		
Saturation Present? Yes X No	Depth (inches): 4	Wetland Hydrology Present	? Yes X No
(includes capillary fringe)	II. aavial mhataa muu isuu isaa asti	and if and italian	
Describe Recorded Data (stream gauge, monitoring we	ii, aeriai priotos, previous inspecti	ons), ir avallable:	
Remarks:			

VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	Sampling Point: WA8			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:			
1				Number of Dominant Species			
2.				That Are OBL, FACW, or FAC: 2	(A)		
3.				Total Number of Dominant			
4				Species Across All Strata: 2 ((B)		
5				Percent of Dominant Species			
6					(A/B)		
7				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:	_		
Sapling/Shrub Stratum (Plot size: 15)				OBL species 0 x 1 = 0	_		
1				FACW species 90 x 2 = 180	_		
2				FAC species 0 x 3 = 0	_		
3				FACU species 0 x 4 = 0	_		
4				UPL species 0 x 5 = 0	_		
5				Column Totals: 90 (A) 180	_ (B)		
6.				Prevalence Index = B/A = 2.00	_		
7				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size:5				X 2 - Dominance Test is >50%			
1. Phalaris arundinacea	25	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹			
2. Phragmites australis	65	Yes	FACW	4 - Morphological Adaptations (Provide suppo	ortinç		
3.				data in Remarks or on a separate sheet)			
4				Problematic Hydrophytic Vegetation ¹ (Explain	ı)		
5				¹ Indicators of hydric soil and wetland hydrology mu	ust		
6.				be present, unless disturbed or problematic.			
7				Definitions of Vegetation Strata:			
8.				Tree – Woody plants 3 in. (7.6 cm) or more in			
9.				diameter at breast height (DBH), regardless of hei	ight.		
10				Sapling/shrub – Woody plants less than 3 in. DB	кН		
11				and greater than or equal to 3.28 ft (1 m) tall.	•		
12.				Herb – All herbaceous (non-woody) plants, regard	lless		
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.	11000		
Woody Vine Stratum (Plot size:30)				Woody vines – All woody vines greater than 3.28	ft in		
1.				height.			
2.							
3.				Hydrophytic Vegetation			
4.				Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a sepa several cover types observed but all connected by su western portions are dominated by reed canary grass species.	ırficial draina						

SOIL

Sampling Point:

WA8

Profile Des Depth	scription: (Describe Matrix	to the de	epth needed to docur Redo:	nent the		r or conf	irm the absence o	f indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR 4/1	98	10YR 4/6	2	C	M	Loamy/Clayey			
7-14	10YR 4/2	60	10YR 5/6	40	С	M	Loamy/Clayey	Prominent redox concentrations		
 -										
		pletion, RN	M=Reduced Matrix, CS	=Covere	ed or Coat	ed Sand		cation: PL=Pore Lining, M=Matrix.		
Histose	I Indicators:		Polyvalue Below	Surface	(S8) (I D	D D		or Problematic Hydric Soils ³ : ck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)	Junace	(30) (LI (ix ix,		airie Redox (A16) (LRR K, L, R)		
	Histic (A3)		Thin Dark Surfac	e (S9) (I	LRR R, M	LRA 149		cky Peat or Peat (S3) (LRR K, L, R)		
	gen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)		
Stratific	ed Layers (A5)		Loamy Mucky M	neral (F	1) (LRR K	Σ, L)	Thin Dar	k Surface (S9) (LRR K, L)		
Deplet	ed Below Dark Surfa	ce (A11)	Loamy Gleyed M	latrix (F2	2)		Iron-Man	iganese Masses (F12) (LRR K, L, R)		
Thick [Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)		
	Mucky Mineral (S1)		Redox Dark Surf	` '				podic (TA6) (MLRA 144A, 145, 149B)		
	Gleyed Matrix (S4)		Depleted Dark S		F7)			Material (F21)		
	Redox (S5)		Redox Depression					allow Dark Surface (TF12)		
	ed Matrix (S6)		Marl (F10) (LRR	K , L)			Other (E	xplain in Remarks)		
Dark S	Surface (S7)									
³ Indicators	of hydrophytic vegeta	ation and v	vetland hydrology mus	t be pres	sent, unles	s disturb	ed or problematic.			
	Layer (if observed)									
Type: st	one/gravel									
Depth (in	nches):	14					Hydric Soil Pre	esent? Yes X No No		
Remarks:										
			-	Suppleme	ent Versio	n 2.0 to r	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1		
2017 Errata	a. (http://soils.usda.go	ov/use/hyd	Iric)							

Project/Site: Somerset Solar		C	ity/County: Sor	merset/Niagara		Sampling Date: 5/11/	/21		
Applicant/Owner: AES					State: N	Y Sampling Point:	UA8		
Investigator(s): Drew Timmis		Se	ection, Townshi	ip, Range:					
Landform (hillside, terrace, etc.	.): terrace	Loca	al relief (concav	ve, convex, none): convex	Slope (%): 1-4		
Subregion (LRR or MLRA): LF		43.354219	,	Long: -78.58		 Datum: W			
, <u> </u>	_				NWI classification				
Soil Map Unit Name: Niagara									
Are climatic / hydrologic condit		-			(If no, explain in				
	, or Hydrology			re "Normal Circu	umstances" prese	nt? Yes X	No		
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (I	If needed, explain	n any answers in	Remarks.)			
SUMMARY OF FINDING	SS – Attach site ma	p showing sar	npling poin	it locations, t	transects, im	portant features,	etc.		
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Samp	oled Area					
Hydric Soil Present?	Yes	No X	within a We	tland?	Yes	No X			
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site I	ID:				
HYDROLOGY									
Wetland Hydrology Indicato	rs:			Se	econdary Indicato	rs (minimum of two re	quired)		
Primary Indicators (minimum	of one is required; check	all that apply)			Surface Soil C	, ,			
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			Crayfish Burrows (C8)				
Sediment Deposits (B2)		Oxidized Rhizosph	-	Roots (C3)		ble on Aerial Imagery	(C9)		
Drift Deposits (B3)		Presence of Redu	, ,	· · · · · · · · · · · · · · · · · · ·					
Algal Mat or Crust (B4)		-		ed Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5)	iol Imagany (D7)	Thin Muck Surface		Shallow Aquitard (D3) Microtopographic Relief (D4)					
Inundation Visible on Aer		Other (Explain in F	temarks)	_	FAC-Neutral T	` '			
Sparsely Vegetated Cond	ave Sunace (Bo)			_	FAC-Neutral 1	est (D5)			
Field Observations:	Vaa Na V	Danth (inches)							
Surface Water Present? Water Table Present?	Yes No X Yes No X	Depth (inches): Depth (inches):							
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes N	o_X_		
(includes capillary fringe)	163 NO_X	Deptil (illiches).		Wetiana Hydro	ology i resent:	163			
Describe Recorded Data (stre	eam gauge monitoring w	ell aerial photos p	revious inspect	 tions) if available	7 .				
Doconico recordos Data (cire	am gaage, memering n	on, donai priotos, p	Toviodo mopoot	ene), ii available	•				
Remarks:									
itemarks.									

	Absolute	Dominant	Indicator					
ree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:				
·				Number of Dominant Species				
				That Are OBL, FACW, or FAC:1 (A)				
				Total Number of Dominant				
•				Species Across All Strata: 3 (B)				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
				That Are OBL, FACW, or FAC: 33.3% (A/B) Prevalence Index worksheet:				
·		=Total Cover	-	Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15)		- Total Gover		OBL species 0 x 1 = 0				
				FACW species 0 x 2 = 0				
				FAC species 25 x 3 = 75				
·				FACU species 25 x 4 = 100				
				UPL species 15 x 5 = 75				
				Column Totals: 65 (A) 250 (B)				
				Prevalence Index = B/A = 3.85				
·				Hydrophytic Vegetation Indicators:				
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%				
. Daucus carota	15	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹				
. Taraxacum officinale	5	No	FACU	4 - Morphological Adaptations ¹ (Provide support				
Lolium perenne	20	Yes	FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)				
. Apocynum cannabinum	10	No	FAC					
Echinochloa crus-galli	15	Yes	FAC	 Indicators of hydric soil and wetland hydrology mus 				
i				be present, unless disturbed or problematic.				
: [Definitions of Vegetation Strata:				
i				Tree – Woody plants 3 in. (7.6 cm) or more in				
				diameter at breast height (DBH), regardless of height.				
0				Sapling/shrub – Woody plants less than 3 in. DBH				
1				and greater than or equal to 3.28 ft (1 m) tall.				
2				Herb – All herbaceous (non-woody) plants, regardless				
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Voody Vine Stratum (Plot size: 30)				Woody vines – All woody vines greater than 3.28 ft in				
				height.				
. <u> </u>				Hydrophytic				
i				Vegetation				
				Present? Yes NoX				
		=Total Cover						
Remarks: (Include photo numbers here or on a sepa everal cover types observed but all connected by su	arate sheet.) urficial draina	ge and channe		ore dominated by dogwoods in so				

SOIL Sampling Point: UA8

Profile De	escription: (Describe Matrix	to the de		nent the		r or conf	irm the absence o	f indicators	s.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks			
			Color (moist)		Туре	LUC			Nemarks			
0-6	10YR 3/3	100					Loamy/Clayey					
6-19	10YR 5/2	75	10YR 6/3	25	С	M	Loamy/Clayey	Fair	nt redox conce	entrations		
					·							
			_									
1						 .	2.					
	-Concentration, D=Dep	letion, RM	=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand			Pore Lining, N			
-	oil Indicators:		Pohavoluo Polow	Surface	(CO) /I DI	. D			atic Hydric Sc			
	sol (A1) : Epipedon (A2)		Polyvalue Below MLRA 149B)	Surface	(S6) (LKI	χĸ,			RR K, L, MLR	·		
	: Histic (A3)		Thin Dark Surface	ce (S9) (I	RR R. M	I RA 149		Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	ogen Sulfide (A4)		High Chroma Sa				Polyvalue Below Surface (S8) (LRR K, L)					
	fied Layers (A5)		Loamy Mucky M			-	Thin Dark Surface (S9) (LRR K, L)					
	eted Below Dark Surfac	e (A11)	Loamy Gleyed M			, –,	Iron-Manganese Masses (F12) (LRR K, L, R)					
	Dark Surface (A12)	` ,	Depleted Matrix		,			-	n Soils (F19) (I	·		
Sand	y Mucky Mineral (S1)		Redox Dark Sur	face (F6)			Mesic Sp	oodic (TA6)	(MLRA 144A,	145, 149B)		
Sand	y Gleyed Matrix (S4)		Depleted Dark S	urface (F	7)		Red Par	ent Material	(F21)			
Sand	y Redox (S5)		Redox Depressi	ons (F8)			Very Shallow Dark Surface (TF12)					
Stripp	oed Matrix (S6)		Marl (F10) (LRR	K, L)			Other (Explain in Remarks)					
Dark	Surface (S7)											
31	and be always by the constant	Cara and a	ada a dibirdada arriva			- d'atamb	a dan amabilana da					
	s of hydrophytic vegeta		etland hydrology mus	t be pres	ent, unles	s disturb	ed or problematic.					
Type:	e Layer (if observed)											
_	inches):						Hydric Soil Pre	esent?	Yes	No X		
							11,411.0 001111					
Remarks: Data form	is revised from Northo	entral and	Northeast Regional S	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicator	s of Hydric So	ils version 8.1		
	ta. (http://soils.usda.go		-						,			

Project/Site: Somerset Solar	City/County: Som	nerset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: WA9
Investigator(s): Drew Timmis	Section, Township	p, Range:	
Landform (hillside, terrace, etc.): depression	Local relief (concav	e, convex, none): Concave	Slope (%): 2-5
Subregion (LRR or MLRA): LRR L Lat: 43.3	355293	Long: -78.580005	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 2 to 6 percent slope		NWI classif	
Are climatic / hydrologic conditions on the site typical for this		X No (If no, explain	
Are Vegetation , Soil , or Hydrology		re "Normal Circumstances" pre	
		•	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map s	-	f needed, explain any answers t locations, transects, i	•
Hydrophytic Vegetation Present? Yes X	No Is the Sample	led Area	
	No within a Wet		No
	No If yes, options	al Wetland Site ID:	-
Remarks: (Explain alternative procedures here or in a separate of the separate	arate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all the			il Cracks (B6)
	ter-Stained Leaves (B9)	X Drainage Pa	
	uatic Fauna (B13) I Deposits (B15)	Moss Trim I	i Water Table (C2)
	drogen Sulfide Odor (C1)	Crayfish Bu	
	dized Rhizospheres on Living		/isible on Aerial Imagery (C9)
l 	sence of Reduced Iron (C4)		Stressed Plants (D1)
	cent Iron Reduction in Tilled So		c Position (D2)
 -	n Muck Surface (C7)	Shallow Aqu	
	er (Explain in Remarks)		raphic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	,	FAC-Neutra	
Field Observations:		<u>—</u>	
Surface Water Present? Yes No X Def	epth (inches):		
Surface Water Present? Yes No X Do Water Table Present? Yes No X Do	epth (inches):		
Saturation Present? Yes X No D	epth (inches): 2	Wetland Hydrology Present	? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspecti	ions), if available:	
Remarks:			

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Ulmus americana	20	Yes	FACW	Number of Dominant Species
2. Populus deltoides	55	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5.	_			Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 80.0% (A/B
7	_			Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			OBL species 0 x 1 = 0
1. Lonicera morrowii	10	Yes	FACU	FACW species 45 x 2 = 90
2. Salix discolor	15	Yes	FACW	FAC species 55 x 3 = 165
3.				FACU species 10 x 4 = 40
Λ				UPL species 0 x 5 = 0
-				Column Totals: 110 (A) 295 (B
6				Prevalence Index = B/A = 2.68
-				
7				Hydrophytic Vegetation Indicators:
Hark Objections (Distrained	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet)
3. 4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
				-
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.	_			, , ,
12.	10	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)	•		Woody vines All woody vines greater than 2.29 ft in
1.	•			Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.	_			Hydrophytic
4.				Vegetation Present? Yes X No
T		Total Causer		Fresent! Tes NO
		=Total Cover		
Remarks: (Include photo numbers here or on a se several cover types observed but all connected by western portions are dominated by reed canary gra species.	surficial draina	age and channe		ore dominated by dogwoods in southeastern area, rea sparesly vegetated by emergent and mainly tree

SOIL Sampling Point: WA9

	escription: (Describe Matrix	to the de	•	nent the		r or conf	irm the absence o	of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	% realure	Type ¹	Loc ²	Texture	Remarks		
(inches)			Color (moist)	/0	Туре			Remarks		
0-4	10YR 4/3	100					Loamy/Clayey	·		
4-20	10YR 4/1	90	10YR 4/6	10	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations		
					· 		-			
	=Concentration, D=Dep	letion, RM	/I=Reduced Matrix, CS	=Covere	ed or Coat	ed Sand		cation: PL=Pore Lining, M=Matrix.		
-	oil Indicators:				>			or Problematic Hydric Soils ³ :		
	sol (A1)		Polyvalue Below	Surface	; (S8) (LR F	₹R,		uck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)	- (CO) (א פפטיי M	" DA 140		rairie Redox (A16) (LRR K, L, R)		
	K Histic (A3)		Thin Dark Surface					ucky Peat or Peat (S3) (LRR K, L, R)		
	ogen Sulfide (A4) ified Layers (A5)		High Chroma Sar Loamy Mucky Mir			-		ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L)		
	eted Below Dark Surfac	(A11) مر	Loamy Gleyed Ma			., L)		nganese Masses (F12) (LRR K, L, R)		
	c Dark Surface (A12)	C (All)	X Depleted Matrix (-)			nt Floodplain Soils (F19) (MLRA 149B)		
	ly Mucky Mineral (S1)		Redox Dark Surfa		a			podic (TA6) (MLRA 144A, 145, 149B)		
	ly Gleyed Matrix (S4)		Depleted Dark Su					rent Material (F21)		
	ly Redox (S5)		Redox Depressio					Very Shallow Dark Surface (TF12)		
	ped Matrix (S6)		Marl (F10) (LRR				Other (Explain in Remarks)			
	Surface (S7)			ι ν , ∟ _/				Apiani in Romano,		
	,									
	s of hydrophytic vegeta		vetland hydrology must	t be pres	sent, unles	s disturb	ed or problematic.			
	ve Layer (if observed):	:								
Type: _										
Depth (i	inches):						Hydric Soil Pro	esent? Yes X No No		
Remarks:			d Nawthaast Dawissal C			- 2 0 to .	offices the NDCC F	ald ladicators of thedric Cails consists 0.4		
	n is revised from Northc ata. (http://soils.usda.go			uppieme	ent Versio	n 2.0 to r	eflect the NRCS Fig	eld Indicators of Hydric Soils version 8.1		
2011 Liiu	ita. (mip.//sons.usua.go	V/u36/11ya	110)							

Project/Site: Somerset Solar		C	ity/County: Soi	merset/Niagara		Sampling Date: 5/11	/21
Applicant/Owner: AES					State: N	IY Sampling Point:	: UA9
Investigator(s): Drew Timmis		Se	ection, Townsh	ip, Range:			
Landform (hillside, terrace, etc.): terrace	Loca	al relief (concav	ve, convex, none): convex	Slope (%	6): 0-2
Subregion (LRR or MLRA): LR		43.355288	,	Long: -78.58	· ———	 Datum: W	
,	_				NWI classifica		
Soil Map Unit Name: Collamer				V N-			
Are climatic / hydrologic condition		-	_	X No			
	, or Hydrology			Are "Normal Circu	•		No
Are Vegetation, Soil _	, or Hydrology	naturally prob	lematic? (If needed, explain	n any answers in	Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sar	npling poir	nt locations,	transects, im	portant features	, etc.
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Samp	oled Area			
Hydric Soil Present?	Yes	No X	within a We	tland?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site	ID:		
HYDROLOGY							
Wetland Hydrology Indicato				<u>S</u> (ors (minimum of two re	<u>equired)</u>
Primary Indicators (minimum o	of one is required; check			<u> </u>	Surface Soil C	, ,	
Surface Water (A1)		Water-Stained Lea	` '	_	Drainage Patt		
High Water Table (A2)		_Aquatic Fauna (B1		_	Moss Trim Lir	` '	
Saturation (A3)		Marl Deposits (B1		_		Vater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide		— — — — — — — — — — — — — — — — — — —	Crayfish Burro		· (CO)
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Rhizosph Presence of Redu	_	Roots (C3)		ible on Aerial Imagery essed Plants (D1)	(C9)
Algal Mat or Crust (B4)		Recent Iron Redu	, ,	Soils (C6)	Geomorphic F		
Iron Deposits (B5)		Thin Muck Surface			Shallow Aquit		
Inundation Visible on Aeri	al Imagery (B7)	Other (Explain in F		_		phic Relief (D4)	
Sparsely Vegetated Conc		_Other (Explain III)	(cinano)	_	FAC-Neutral	, ,	
Field Observations:	210 04.1400 (20)						
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X Yes No X	Depth (inches):					
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes N	lo_X_
(includes capillary fringe)		•					
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if available	э:		
Remarks:							

VEGETATION – Use scientific names of pl	Absolute	Dominant	Indicator	T
<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.	·			That Are OBL, FACW, or FAC:1 (A)
3.	·			Total Number of Dominant
5.				Species Across All Strata: 3 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.				That Are OBL, FACW, or FAC: 33.3% (A/B) Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		-10101 00101		OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 25 x 3 = 75
3.	·			FACU species 42 x 4 = 168
4.				UPL species 10 x 5 = 50
5.				Column Totals: 77 (A) 293 (B)
6.				Prevalence Index = B/A = 3.81
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				2 - Dominance Test is >50%
1. Daucus carota	10	No	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Taraxacum officinale	10	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Lolium perenne	15	Yes	FACU	data in Remarks or on a separate sheet)
4. Apocynum cannabinum	10	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Echinochloa crus-galli	15	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
6. Vicia sativa	17	Yes	FACU	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	77	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)				Woody vines - All woody vines greater than 3.28 ft in
1				height.
2.				Hydrophytic
3.				Vegetation
4.				Present?
	-	=Total Cover		1
Remarks: (Include photo numbers here or on a sepa several cover types observed but all connected by si western portions are dominated by reed canary gras	urficial draina			
species.	o (i rididilo di	. unumuooaj, ai	1010010u ai	to sparoon regulated by emergent and mainly nee

SOIL Sampling Point: UA9

	escription: (Describe	to the dep				r or conf	irm the absence o	f indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Feature %	Type ¹	Loc ²	Texture	Rema	rke
(inches)	Color (moist)		Color (moist)			LUC		Nema	INS
0-6	10YR 4/3	95	10YR 3/6	5	С	M	Loamy/Clayey	refusa	l hit
			_						
	·								
¹ Type: C=	Concentration, D=Dep	letion, RM=	Reduced Matrix, CS	=Covere	d or Coat	ed Sand	Grains. ² Loo	cation: PL=Pore Lining	g, M=Matrix.
Hydric So	il Indicators:						Indicators fo	or Problematic Hydric	Soils ³ :
Histos	sol (A1)	_	Polyvalue Below	Surface	(S8) (LRF	RR,	2 cm Mu	ck (A10) (LRR K, L, M	ILRA 149B)
Histic	Epipedon (A2)		MLRA 149B)				Coast Pr	rairie Redox (A16) (LR	R K, L, R)
Black	Histic (A3)	_	Thin Dark Surfac				B)5 cm Mu	cky Peat or Peat (S3)	(LRR K, L, R)
	gen Sulfide (A4)	_	High Chroma Sa	nds (S11) (LRR K	, L)	Polyvalue	e Below Surface (S8) ((LRR K, L)
	fied Layers (A5)	_	Loamy Mucky Mi			, L)	Thin Dar	k Surface (S9) (LRR K	K, L)
	ted Below Dark Surfac	e (A11)	Loamy Gleyed M	atrix (F2)		Iron-Man	nganese Masses (F12)	(LRR K, L, R)
	Dark Surface (A12)	_	Depleted Matrix	(F3)			Piedmon	nt Floodplain Soils (F19	9) (MLRA 149B)
	y Mucky Mineral (S1)	_	Redox Dark Surf	ace (F6)			Mesic Sp	oodic (TA6) (MLRA 14	4A, 145, 149B)
Sandy	y Gleyed Matrix (S4)	_	Depleted Dark S	urface (F	7)			ent Material (F21)	
	y Redox (S5)	_	Redox Depression					allow Dark Surface (TF	12)
	ed Matrix (S6)	_	Marl (F10) (LRR	K , L)			Other (E	xplain in Remarks)	
Dark	Surface (S7)								
2									
	of hydrophytic vegeta		tland hydrology mus	t be pres	ent, unles	s disturb	ed or problematic.		
	e Layer (if observed):	:							
Type: s	tone/gravel								
Depth (i	nches):	6					Hydric Soil Pre	esent? Yes	No X
Remarks:									
	is revised from Northc			Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fie	eld Indicators of Hydric	Soils version 8.1
2017 Errat	ta. (http://soils.usda.go	v/use/hydri	c)						

Project/Site: Somerset Solar	City/County: Somerset/	Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: WA10
Investigator(s): Drew Timmis	Section, Township, Ran	 ge:	
Landform (hillside, terrace, etc.): depression	Local relief (concave, conv	vex, none): Concave	Slope (%): 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.3	 54519 Lon	ng: -78.592891	Datum: WGS 84
Soil Map Unit Name: Rhinebeck silt loam, 2 to 6 percent slop		NWI classif	
Are climatic / hydrologic conditions on the site typical for this		No (If no, explain	
Are Vegetation , Soil , or Hydrology		rmal Circumstances" pre	
Are Vegetation , Soil , or Hydrology		ed, explain any answers	
SUMMARY OF FINDINGS – Attach site map si		•	,
Hydrophytic Vegetation Present? Yes X N	o Is the Sampled Are	ea	
<u></u>	within a Wetland?		No
<u></u>	lo If yes, optional Wetl		
Remarks: (Explain alternative procedures here or in a sepa emergent depressional area dominated by phragmites	rate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all the			il Cracks (B6)
l 	er-Stained Leaves (B9)	X Drainage P	
	atic Fauna (B13)		Lines (B16)
	Deposits (B15)		n Water Table (C2)
1 	rogen Sulfide Odor (C1)	Crayfish Bu	
	lized Rhizospheres on Living Roots		Visible on Aerial Imagery (C9)
l ' ` ` /	sence of Reduced Iron (C4)		Stressed Plants (D1) c Position (D2)
l 	ent Iron Reduction in Tilled Soils (Co Muck Surface (C7)	Shallow Aq	, ,
1 	, ,		, ,
X Sparsely Vegetated Concave Surface (B8)	er (Explain in Remarks)		raphic Relief (D4) al Test (D5)
Field Observations:		I AC-Neutra	1 (03)
	epth (inches):1		
Surface Water Present? Yes X No De Water Table Present? Yes No X De	epth (inches):		
Saturation Present? Yes X No De	epth (inches): 5 Wetla	and Hydrology Present	? Yes X No
(includes capillary fringe)	· ` ` <u> </u>		
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspections), it	f available:	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: WA10 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 0 x 3 = 0 2. FAC species 3. FACU species 0 x 4 = 0 4. UPL species x 5 = 0 90 Column Totals: (A) 180 (B) Prevalence Index = B/A =2.00 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% 1. Phragmites australis 90 X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 90 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes X No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA10

	Profile Description: (Describe to the depth needed to document the indicator or concepth Matrix Redox Features						irm the absence o	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-14	10YR 4/1	70	10YR 5/6	30	C	M	Loamy/Clayey	romano	
14-20	10YR 4/2	60	10YR 5/6	30			Loamy/Clayey	Prominent redox concentrations	
	10YR 2/1	10							
¹ Type: C-	-Concentration, D=Dep	letion RN	——————————————————————————————————————	S-Covere	ad or Coat	ed Sand (Grains ² Lo	cation: PL=Pore Lining, M=Matrix.	
	oil Indicators:	iction, ren	i–reduced Matrix, Oc	D=OOVETE	o or ooal	ca Garia		or Problematic Hydric Soils ³ :	
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	R R.		uck (A10) (LRR K, L, MLRA 149B)	
	Epipedon (A2)		MLRA 149B)	Canaco	(00) (2.11	,		rairie Redox (A16) (LRR K, L, R)	
			,	oo (SO) (I	DD D M	I D A 1401			
	Histic (A3)		Thin Dark Surface					ucky Peat or Peat (S3) (LRR K, L, R)	
	ogen Sulfide (A4)		High Chroma Sa			-		ue Below Surface (S8) (LRR K, L)	
	fied Layers (A5)		Loamy Mucky M	ineral (F	1) (LRR K	(, L)	Thin Da	rk Surface (S9) (LRR K, L)	
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed N	1atrix (F2	2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sand	y Mucky Mineral (S1)		Redox Dark Sur	face (F6)			Mesic S	podic (TA6) (MLRA 144A, 145, 149B)	
	y Gleyed Matrix (S4)		Depleted Dark S					rent Material (F21)	
	y Redox (S5)		Redox Depressi		.,			allow Dark Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR	K, L)			Other (E	Explain in Remarks)	
Dark	Surface (S7)								
	s of hydrophytic vegetat		vetland hydrology mus	t be pres	ent, unles	s disturbe	ed or problematic.		
Restrictiv Type:	e Layer (if observed):								
	inches):						Hydric Soil Pro	esent? Yes X No	
Remarks:	<u> </u>						1	<u> </u>	
				Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fig	eld Indicators of Hydric Soils version 8.1	
2017 Erra	ta. (http://soils.usda.go	v/use/nya	ric)						

Project/Site: Somerset Solar		C	ity/County: Sor	merset/Niagara		Sampling Date: 5/	11/21	
Applicant/Owner: AES					State: N	NY Sampling Poi	nt: UA10	
Investigator(s): Drew Timmis		Se	ection, Townsh	ip, Range:				
Landform (hillside, terrace, etc.)): terrace	Loca	al relief (concav	ve, convex, none): convex	Slope	(%): 0-2	
Subregion (LRR or MLRA): LR		: 43.354772	,	Long: -78.59	· -		WGS 84	
Soil Map Unit Name: Rhinebec	_				NWI classifica			
·			Vaa	V No				
Are climatic / hydrologic condition		•	_		(If no, explain in		Na	
	, or Hydrology				umstances" prese		No	
Are Vegetation, Soil _	, or Hydrology	naturally prob	lematic? (If needed, explain	n any answers in	Remarks.)		
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poin	nt locations, t	transects, im	portant feature	es, etc.	
Hydrophytic Vegetation Presei	nt? Yes	No X	Is the Samp	oled Area				
Hydric Soil Present?	Yes	No X	within a We		Yes	No X		
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site				
Remarks: (Explain alternative	procedures here or in a	separate report.)						
HYDROLOGY								
Wetland Hydrology Indicator				<u>S</u>		ors (minimum of two	required)	
Primary Indicators (minimum o	of one is required; check		(D0)	<u> </u>	Surface Soil C	, ,		
Surface Water (A1)		_Water-Stained Lea	` '	_	Drainage Patte			
High Water Table (A2)		_Aquatic Fauna (B1		_	Moss Trim Lin	,		
Saturation (A3) Water Marks (B1)		Marl Deposits (B1 Hydrogen Sulfide			Crayfish Burro	Vater Table (C2)		
Sediment Deposits (B2)		Oxidized Rhizosph		Poots (C3)	-		ary (C9)	
Drift Deposits (B3)		Presence of Redu	-		s (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Recent Iron Redu	, ,	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
Iron Deposits (B5)		Thin Muck Surface			Shallow Aquita			
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in F				phic Relief (D4)		
Sparsely Vegetated Conc		- ` '	,	_	FAC-Neutral T	, ,		
Field Observations:					<u> </u>			
Surface Water Present?	Yes No X	Depth (inches):						
Water Table Present?	Yes No X Yes No X	Depth (inches):						
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes	No X	
(includes capillary fringe)								
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, p	revious inspect	tions), if available	э :			
Remarks:								
Romano.								

VEGETATION – Use scientific names of plants. Sampling Point: UA10 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. 0 (A) **Total Number of Dominant** Species Across All Strata: 4. 3 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 10 2. FAC species x 3 = 3. FACU species 50 x 4 = 4. UPL species 23 x 5 = 115 Column Totals: 83 (A) 345 (B) Prevalence Index = B/A = 4.16 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Daucus carota **UPL** 3 - Prevalence Index is ≤3.0¹ No Trifolium campestre 20 UPL 4 - Morphological Adaptations (Provide supporting 2. Yes data in Remarks or on a separate sheet) 25 Yes **FACU** 3. Lolium perenne Problematic Hydrophytic Vegetation¹ (Explain) Apocynum cannabinum No FAC 20 Yes 5. Poa pratensis **FACU** ¹Indicators of hydric soil and wetland hydrology must 6. Vicia sativa **FACU** be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 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 83 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No X Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: UA10

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. Locarny/Claysey refusal hit		escription: (Describe	to the dep				r or confi	irm the absence of	indicators.)		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. This coate in the coate of the coa	Depth	Matrix					1.22	Tautuma	Damadia		
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. "Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Histosoi (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Mucky Mineral (S1) Sandy Redox (S5) Redox Depressions (F8) Sandy Redox (S5) Marl (F10) (LRR K, L) Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L) Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Remarkis: Deptit (inches): 12 Hydric Soil Present? Yes No X Remarks:	(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Туре	Loc	1 exture	Remarks		
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Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Thin Dark Surface (A12) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) Alindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	-			Daharaha Dalam	. Cf	(CO) (LD)	n n				
Black Histic (A3)			-	-	Surface	(S8) (LRI	₹K,				
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.** **Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X **Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1				,	(00) (I D A 4 401				
Stratified Layers (A5)			-								
Depleted Below Dark Surface (A11)			-				-				
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1			_				., L)				
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Deple	ted Below Dark Surface	e (A11)	Loamy Gleyed M	latrix (F2	2)		Iron-Mang	anese Masses (F12) (LRR K, L, R)		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Thick	Dark Surface (A12)	_	Depleted Matrix ((F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)		
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Sand	y Mucky Mineral (S1)	_	Redox Dark Surf	ace (F6))		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)		
Stripped Matrix (S6)	Sand	y Gleyed Matrix (S4)	_	Depleted Dark S	urface (I	F7)		Red Parer	nt Material (F21)		
Dark Surface (S7) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Sand	y Redox (S5)		Redox Depression	ons (F8)			Very Shall	low Dark Surface (TF12)		
3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Stripp	ed Matrix (S6)	_	Marl (F10) (LRR	K, L)			Other (Explain in Remarks)			
Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12	Dark	Surface (S7)	_	<u> </u>							
Restrictive Layer (if observed): Type: stone/gravel Depth (inches): 12											
Type: stone/gravel Depth (inches): 12	³ Indicators	of hydrophytic vegetat	ion and we	etland hydrology mus	t be pres	sent, unles	s disturbe	ed or problematic.			
Depth (inches): 12 Hydric Soil Present? Yes No X Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Restrictiv	e Layer (if observed):									
Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Type: s	tone/gravel									
Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1	Depth (i	nches):	12					Hydric Soil Pres	sent? Yes No X		
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1		· ·		<u> </u>				1			
		is revised from Northce	entral and	Northeast Regional S	Supplem	ent Versio	n 2.0 to re	eflect the NRCS Field	d Indicators of Hydric Soils version 8.1		
				_					, , , , , , , , , , , , , , , , , , , ,		
		` '	•	,							

Project/Site: Somerset Solar	C	City/County: Somerset/Niaga	ra	Sampling Date: 5/11/21
Applicant/Owner: AES			State:	NY Sampling Point: WA11
Investigator(s): Drew Timmis	Si	ection, Township, Range:		
Landform (hillside, terrace, etc.):	epression Loca	al relief (concave, convex, no	one): Concave	Slope (%): 0-4
Subregion (LRR or MLRA): LRR L	Lat: 43.356458	Long: -78	3.592421	Datum: WGS 84
Soil Map Unit Name: Rhinebeck silt I	loam, 2 to 6 percent slopes		NWI classifi	cation:
Are climatic / hydrologic conditions or	the site typical for this time of year?	Yes X No	(If no, explain	n Remarks.)
, ,	, or Hydrology significantly d		ircumstances" pre	
	, or Hydrology naturally prob		plain any answers	
	Attach site map showing sa		s, transects, i	mportant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes X No	within a Wetland?	Yes_X	No
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland S	Site ID:	<u> </u>
Remarks: (Explain alternative proce emergent depressional area	edures here or in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:			•	ators (minimum of two required)
Primary Indicators (minimum of one				Cracks (B6)
Surface Water (A1)	Water-Stained Le	, ,	X Drainage Pa	
X High Water Table (A2)	Aquatic Fauna (B		Moss Trim L	` ,
X Saturation (A3)	Marl Deposits (B1			Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide		Crayfish Bur	
Sediment Deposits (B2)		heres on Living Roots (C3)		isible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Redu	` '		Stressed Plants (D1)
Algal Mat or Crust (B4)		ection in Tilled Soils (C6)		Position (D2)
Iron Deposits (B5)	Thin Muck Surfac	` '	Shallow Aqu	
Inundation Visible on Aerial Ima		Remarks)	X Microtopogra	aphic Relief (D4)
X Sparsely Vegetated Concave S	unace (B8)		FAC-Neutra	Test (D5)
Field Observations: Surface Water Present? Yes	No V Donth (inches)			
Surface Water Present? Yes Water Table Present? Yes		2		
	X No Depth (inches):		/drology Present?	Yes X No
(includes capillary fringe)	A NO Deptit (inches).	vveualiu ny	diology Fresent	162 <u>V</u> 110
<u> </u>	auge, monitoring well, aerial photos, p	revious inspections), if availa	able:	
2000.20 (0.00.00 20.0 (0.00.0)	tago,oog tol., ao.ta. p. 0.00, p		uu:0	
Remarks:				

VEGETATION – Use scientific names of plants. Sampling Point: WA11 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 10 x 3 = 2. FAC species x 4 = 3. FACU species 0 0 4. UPL species x 5 = 0 Column Totals: 85 (A) 180 (B) Prevalence Index = B/A =2.12 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Barbarea vulgaris 10 FAC X 3 - Prevalence Index is ≤3.0¹ Phragmites australis 25 Yes **FACW** 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 50 3. Phalaris arundinacea Yes **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes X No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA11

	Profile Description: (Describe to the depth needed to document the indicator or competed the indicator or competed to document the indicator or							f indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-5	2.5YR 2.5/1	100			- 77		Muck				
5-14	10YR 4/1	80	10YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concentrations			
14-20	10YR 4/1	70	10YR 4/6	30	C	<u>M</u>	Mucky Loam/Clay	Prominent redox concentrations			
1	Consentration D. Don	lation DA	A. Dardusa d Matrix. CC					antique DI Dana Lining M Matrix			
	Concentration, D=Depoil Indicators:	letion, RI	/I=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand		cation: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :			
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	R R.		ck (A10) (LRR K, L, MLRA 149B)			
	Epipedon (A2)		MLRA 149B)		() (,	·	airie Redox (A16) (LRR K, L, R)			
	Histic (A3)		X Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 149		cky Peat or Peat (S3) (LRR K, L, R)			
	gen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)			
	fied Layers (A5)		Loamy Mucky M			-		k Surface (S9) (LRR K, L)			
	ted Below Dark Surfac	e (A11)	Loamy Gleyed N			, ,	Iron-Manganese Masses (F12) (LRR K, L, R)				
	Dark Surface (A12)	,	X Depleted Matrix		,			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	y Mucky Mineral (S1)		Redox Dark Sur					podic (TA6) (MLRA 144A, 145, 149B)			
	y Gleyed Matrix (S4)		Depleted Dark S					ent Material (F21)			
	y Redox (S5)		Redox Depressi		',						
	ed Matrix (S6)		Marl (F10) (LRR					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)			
	Surface (S7)		Wall (F10) (LKK	κ, L)			Other (L.	xpiairi iri Kemarks)			
Daik \	Surface (S7)										
	of hydrophytic vegeta		vetland hydrology mus	t be pres	ent, unles	s disturb	ed or problematic.				
Restrictive Type:	e Layer (if observed):										
	nches):						Hydric Soil Pre	esent? Yes X No			
Remarks:											
	is revised from Northc ta. (http://soils.usda.go		-	Suppleme	ent Versio	n 2.0 to r	eflect the NRCS Fie	eld Indicators of Hydric Soils version 8.1			

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara		Sampling Date: 5/11/2	21
Applicant/Owner: AES					State: N	IY Sampling Point:	UA11
Investigator(s): Drew Timmis		Se	ection, Townsh	nip, Range:			
Landform (hillside, terrace, etc.): hillside	Loca	al relief (conca	ve, convex, none	e): convex	Slope (%)	: 2-6
Subregion (LRR or MLRA): LR		: 43.356408	,	Long: -78.59	·	, , , , , , , , , , , , , ,	
					NWI classifica		
Soil Map Unit Name: Collamer						-	
Are climatic / hydrologic condition		-	_		(If no, explain in		
	, or Hydrology			Are "Normal Circ	umstances" prese	ent? Yes X	No
Are Vegetation, Soil _	, or Hydrology	naturally prob	elematic?	If needed, explai	n any answers in	Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poi	nt locations,	transects, im	portant features,	etc.
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Sam	oled Area			
Hydric Soil Present?	Yes	No X	within a We	etland?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Site	ID:		
HYDROLOGY							
Wetland Hydrology Indicato				<u>S</u>		ors (minimum of two red	<u>quired)</u>
Primary Indicators (minimum o	of one is required; check				Surface Soil C	, ,	
Surface Water (A1)		_Water-Stained Lea	, ,	_	Drainage Patt		
High Water Table (A2)		_Aquatic Fauna (B1		_	Moss Trim Lir	` '	
Saturation (A3)		_Marl Deposits (B1:		_		Vater Table (C2)	
Water Marks (B1)		_Hydrogen Sulfide			Crayfish Burro		(00)
Sediment Deposits (B2)		Oxidized Rhizosph Presence of Redu] Roots (C3)		ible on Aerial Imagery ((C9)
Drift Deposits (B3) Algal Mat or Crust (B4)		Recent Iron Redu	, ,	Soils (C6)	Geomorphic F	essed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface			Shallow Aquit		
Inundation Visible on Aeri	al Imagery (B7)	Other (Explain in F		_		phic Relief (D4)	
Sparsely Vegetated Conc		_Other (Explain in I	(Cinanco)	_	FAC-Neutral	, ,	
Field Observations:	ave danade (Bo)	 			1710 11001101	1001 (20)	
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X Yes No X	Depth (inches):					
Saturation Present?	Yes No X		_	Wetland Hydro	ology Present?	Yes No	X_
(includes capillary fringe)		_ ' \ ′ -		•	0,		
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if available	e:		
Remarks:							
. tomanto							

VEGETATION – Use scientific names of plants. Sampling Point: UA11 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 50 2. FAC species x 3 = 150 3. FACU species 30 x 4 = 120 0 4. UPL species x 5 = 0 Column Totals: 85 (A) 280 (B) Prevalence Index = B/A =3.29 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Apocynum cannabinum 50 FAC 3 - Prevalence Index is ≤3.0¹ Yes Solidago canadensis 30 Yes **FACU** 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 3. Onoclea sensibilis No **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No X Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: UA11

Profile Des	scription: (Describe	to the de		ment the		r or conf	irm the absence o	f indicators	i.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	i
0-3	10YR 3/3	100					Loamy/Clayey			
3-9	10YR 4/3	100					Loamy/Clayey			
9-17	10YR 5/2	90	10YR 4/6	10		M	Loamy/Clayey	Promin	ent redox cor	ncentrations
							<u> </u>			
	_		_							
1 _{T. max} C (Democratica D. Dev	DM	Dadward Matrix Ct				Crains 21		Dana Linina A	A Nantuin
	Concentration, D=Dep I Indicators:	pietion, Rivi	=Reduced Matrix, C	s=Covere	ed or Coat	ea Sana	Indicators fo		Pore Lining, N	•
Histoso			Polyvalue Below	/ Surface	(S8) (LR I	R R.			RR K, L, MLR	
	Epipedon (A2)	•	MLRA 149B)		()(,			(A16) (LRR k	· ·
	Histic (A3)		Thin Dark Surfa	ce (S9) (I	LRR R, M	LRA 149			Peat (S3) (LF	
Hydrog	gen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR K	, L)	Polyvalu	e Below Sur	face (S8) (LR	R K, L)
	ed Layers (A5)	,	Loamy Mucky M			(, L)			89) (LRR K, L	
	ed Below Dark Surfac	ce (A11)	Loamy Gleyed N		2)			-	sses (F12) (L	-
	Dark Surface (A12)	•	Depleted Matrix						Soils (F19) (I	•
	Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dark Sur Depleted Dark S					oodic (TA6) (ent Material	(MLRA 144A,	, 145, 149B)
	Redox (S5)		Redox Depressi		7)		•		urface (TF12))
	ed Matrix (S6)		Marl (F10) (LRF					xplain in Rei		,
	urface (S7)	•		,					,	
	of hydrophytic vegeta		etland hydrology mus	st be pres	ent, unles	s disturb	ed or problematic.			
	Layer (if observed)	:								
Type:								. •		
Depth (in	ches):						Hydric Soil Pre	esent?	Yes	No <u>X</u>
Remarks:	s revised from Northo	ontrol and	Northcost Pagional	Supplem	ant Varaio	n 2 0 to r	officiat the NDCS Fig	ald Indicator	of Undria Ca	sila varaion 9 1
	a. (http://soils.usda.go			Suppleme	ent versio	11 2.0 10 10	ellect the NKC3 Fit	eiu iriuicators	s of Hyuric Sc	olis version 6. i
		,	,							

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/12/21
Applicant/Owner: AES	State: NY Sampling Point: WA12
Investigator(s): Drew Timmis	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.345815	Long: -78.582319 Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	rear? Yes X No (If no, explain in Remarks.)
	ntly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report Forested swamp with stream SA-6 flowing from/through	ort.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
X Surface Water (A1) X Water-Staine	
X High Water Table (A2) Aquatic Faun	
X Saturation (A3)Marl Deposits X Water Marks (B1) Y Hydrogen Su	
X Water Marks (B1) X Hydrogen Su Sediment Deposits (B2) Oxidized Rhiz	ulfide Odor (C1) Crayfish Burrows (C8) zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
I <u> </u>	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Su	
	in in Remarks) X Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inch	· · · · · · · · · · · · · · · · · · ·
Water Table Present? Yes X No Depth (inch	
Saturation Present? Yes X No Depth (inch	nes): 8 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	to a consideration of the collaboration of the coll
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), ir available:
Remarks:	
Tromano.	

VEGETATION – Use scientific names of plants. Sampling Point: WA12 Dominant Indicator Absolute **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Ulmus americana 40 **FACW** Yes **Number of Dominant Species** 10 No **FACW** That Are OBL, FACW, or FAC: 2. Acer saccharinum 5 (A) Fraxinus pennsylvanica 25 Yes **FACW Total Number of Dominant** Species Across All Strata: 4. 6 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B) Prevalence Index worksheet: 75 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = **FACU FACW** species x 2 = Lonicera morrowii **FACW** 0 0 2. Cornus amomum Yes FAC species x 3 = 3. FACU species 20 x 4 = 0 4. UPL species x 5 = 0 5. Column Totals: 130 (A) 270 (B) Prevalence Index = B/A = 2.08 **Hydrophytic Vegetation Indicators:** 25 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Eleocharis palustris 20 OBL X 3 - Prevalence Index is ≤3.0¹ Yes Scirpus cyperinus Yes 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 30 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes X No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: WA12

	escription: (Describe	to the de				r or conf	irm the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 4/1	80	10YR 4/6	20	С	M	Loamy/Clayey	saturated soils
	10YR 4/2							
14-20	101R 4/2		10YR 4/6	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=	-Concentration, D=Depl	letion. RM	=Reduced Matrix. CS	=Covere	ed or Coat	ed Sand	Grains. ² Lo	cation: PL=Pore Lining, M=Matrix.
	oil Indicators:							or Problematic Hydric Soils ³ :
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	RR,		ick (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)		() (•		rairie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surfac	ce (S9) (I	RR R M	I RΔ 149		cky Peat or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)
						-		
	fied Layers (A5)		Loamy Mucky M			., L)		k Surface (S9) (LRR K, L)
Deple	eted Below Dark Surface	e (A11)	Loamy Gleyed M	1atrix (F2	2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sand	y Mucky Mineral (S1)		Redox Dark Surf	face (F6)			Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)
Sand	y Gleyed Matrix (S4)		Depleted Dark S	urface (F	- 7)		Red Par	ent Material (F21)
	y Redox (S5)		Redox Depression		,			allow Dark Surface (TF12)
	ped Matrix (S6)		Marl (F10) (LRR	, ,				xplain in Remarks)
	Surface (S7)		Man (1 10) (Errit	11, =/				Apidin in remarke)
3								
	s of hydrophytic vegetat re Layer (if observed):		etland hydrology mus	t be pres	ent, unles	s disturb	ed or problematic.	
Type:	e Layer (ii ebeer rea).							
Depth (i	inches):						Hydric Soil Pre	esent? Yes X No
Remarks:			N 11 (B) 16				" ND00 F	
	is revised from Northco ta. (http://soils.usda.gov		-	suppleme	ent versio	n 2.0 to r	effect the NRCS Fig	eld Indicators of Hydric Soils version 8.1
ZOTT ETTU	ia. (mp.//ooilo.aoaa.gov	// d50/11yai	10)					

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara		Sampling Date: 5/12/2	.1
Applicant/Owner: AES					State:	NY Sampling Point:	UA12
Investigator(s): Drew Timmis		Se	ection, Townsh	nip, Range:			
Landform (hillside, terrace, etc.)): terrace	Loca	al relief (conca	ve, convex, none	e): none	Slope (%):	0-1
Subregion (LRR or MLRA): LR		: 43.345664	,	Long: -78.58		Datum: WG	
, <u> </u>	_				NWI classification		• • •
Soil Map Unit Name: Collamer							
Are climatic / hydrologic condition		-	_	X No	_		
	, or Hydrology			Are "Normal Circ			No
Are Vegetation, Soil _	, or Hydrology	naturally prob	lematic?	(If needed, explai	in any answers ir	ı Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sar	mpling poi	nt locations,	transects, in	nportant features, e	etc.
Hydrophytic Vegetation Preser	nt? Yes	No X	Is the Sam	pled Area			
Hydric Soil Present?	Yes	No X	within a We	etland?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, optio	nal Wetland Site	ID:		
HYDROLOGY							
Wetland Hydrology Indicator	rs:			<u>s</u>	Secondary Indicat	tors (minimum of two requ	uired)
Primary Indicators (minimum o	of one is required; check				Surface Soil (` ,	
Surface Water (A1)		_Water-Stained Lea	. ,	_	Drainage Pat		
High Water Table (A2)		_Aquatic Fauna (B1		_	Moss Trim Li	` '	
Saturation (A3)		_Marl Deposits (B1:		_		Vater Table (C2)	
Water Marks (B1)		_ Hydrogen Sulfide			Crayfish Burr		20)
Sediment Deposits (B2)		Oxidized Rhizosph		g Roots (C3)		sible on Aerial Imagery (C	J9)
Drift Deposits (B3) Algal Mat or Crust (B4)	-	Presence of Redu Recent Iron Reduc	, ,		Geomorphic I	ressed Plants (D1)	
Iron Deposits (B5)		Thin Muck Surface			Shallow Aquit		
Inundation Visible on Aeri	al Imagery (B7)	Other (Explain in F		_		phic Relief (D4)	
Sparsely Vegetated Conc		_Other (Explain III)	rtomanto)	_	FAC-Neutral	. , ,	
Field Observations:	210 04.1400 (20)		Ī	-			
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X Yes No X	Depth (inches):					
Saturation Present?	Yes No X			Wetland Hydro	ology Present?	Yes No	X
(includes capillary fringe)							
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	ctions), if available	e:		
Remarks:							
rtomano.							

VEGETATION – Use scientific names of plants. Sampling Point: UA12 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. 0 (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = FACW species x 2 = 0 x 3 = 2. FAC species 3. FACU species 0 x 4 = 4. UPL species 45 x 5 = 225 Column Totals: 45 (A) 225 (B) Prevalence Index = B/A =5.00 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Zea mays 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 45 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No X Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: UA12

Profile De	escription: (Describe Matrix	to the de		ment the		r or confi	irm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/3	100	Color (inclos)		.,,,,		Loamy/Clayey	. temane	
6-14	10YR 4/3	95	10YR 4/6	5	С	М	Loamy/Clayey	Distinct redox concentra	tions
14-20	10YR 5/3	90	10YR 4/6	10	С	М	Loamy/Clayey	Distinct redox concentra	tions
1 _{Tymor} C	Concentration D. Don	lation DA	L Dadward Matrix CS	Cover			Croins 21 and	ation: PL=Pore Lining, M=Mat	teis.
	Concentration, D=Dep	ietion, Riv	=Reduced Matrix, Co	s=Covere	ed of Coat	eu Sanu i		Problematic Hydric Soils ³ :	
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	RR.		k (A10) (LRR K, L, MLRA 14 9	
	Epipedon (A2)		MLRA 149B)		`	ŕ		irie Redox (A16) (LRR K, L, F	,
	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 1491		ky Peat or Peat (S3) (LRR K,	
Hydro	gen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR K	, L)	Polyvalue	Below Surface (S8) (LRR \mathbf{K} ,	L)
	ied Layers (A5)		Loamy Mucky M			, L)		Surface (S9) (LRR K, L)	
	ted Below Dark Surfac	e (A11)	Loamy Gleyed N		2)			ganese Masses (F12) (LRR K	-
	Dark Surface (A12)		Depleted Matrix					Floodplain Soils (F19) (MLRA	-
	/ Mucky Mineral (S1)		Redox Dark Sur Depleted Dark S	, ,				odic (TA6) (MLRA 144A, 145,	149B)
	/ Gleyed Matrix (S4) / Redox (S5)		Redox Depressi	`	-7)			nt Material (F21) low Dark Surface (TF12)	
	ed Matrix (S6)		Marl (F10) (LRR					plain in Remarks)	
	Surface (S7)			, -,				,	
	of hydrophytic vegeta		etland hydrology mus	t be pres	ent, unles	s disturbe	ed or problematic.		
	e Layer (if observed):								
Type: _									
Depth (ii	nches):						Hydric Soil Pres	sent? Yes No	o <u>X</u>
Remarks:							# NB 00 E		
	is revised from Northcita. (http://soils.usda.go		-	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fiel	d Indicators of Hydric Soils ve	rsion 8.1
ZOTT LITAL	ia. (mtp.//soiis.usua.go	v/u3c/riyu	110)						

Project/Site: Somerset Solar	City/County: So	merset/Niagara	Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: WB1
Investigator(s): A Cimpi	Section, Townsh	nip, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (conca	ve, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat:	43.357688	Long: -78.618855	Datum: WGS 84
Soil Map Unit Name: Arkport very fine sandy loam, 6		NWI classif	
Are climatic / hydrologic conditions on the site typical for			.
Are Vegetation, Soil, or Hydrology	<u>-</u>	Are "Normal Circumstances" pro	,
Are Vegetation , Soil , or Hydrology	naturally problematic?	If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	— p showing sampling po	int locations, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sam	pled Area	
Hydric Soil Present? Yes X	No within a We		No
Wetland Hydrology Present? Yes X	No If yes, optio	nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a	separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)		il Cracks (B6)
I 	Nater-Stained Leaves (B9)	X Drainage P	
	Aquatic Fauna (B13)	X Moss Trim	
<u> </u>	Marl Deposits (B15)		n Water Table (C2)
l 	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
<u> </u>	Oxidized Rhizospheres on Livin		Visible on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)		Stressed Plants (D1)
<u> </u>	Recent Iron Reduction in Tilled		c Position (D2)
 -	Thin Muck Surface (C7)	X Shallow Aq	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-Neutra	raphic Relief (D4)
		1 AC-Neutra	1 1631 (D3)
Field Observations: Surface Water Present? Yes X No	Donth (inches): 1		
Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches): 1 Depth (inches): Depth (inches):	Wetland Hydrology Present	t? Yes X No
(includes capillary fringe)	Dopur (morico).	Welland Hydrology Frederic	103 <u>X</u> 110
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspe	ections), if available:	
Remarks:			

nance Test worksheet:	t:		
er of Dominant Species	9		
Are OBL, FACW, or FAC		2	(A)
			-
Number of Dominant es Across All Strata:		2	(B)
			- ` ′
nt of Dominant Species Are OBL, FACW, or FAC		00.0%	(A/B)
lence Index workshee		70.070	_ (/////)
		المادر المنا	
Total % Cover of:		Itiply by:	_
species 0	_		_
/ species 0			_
species 45			
species 0	_	0	
pecies 0	x 5 =	0	
nn Totals: 45	(A)	135	(B)
Prevalence Index = B/	/A =	3.00	
phytic Vegetation Indi	licators:		
- Rapid Test for Hydrop	phytic Veg	getation	
- Dominance Test is >5	50%		
- Prevalence Index is ≤	≤3.0 ¹		
- Morphological Adapta	ations¹ (Pr	ovide sur	porting
data in Remarks or on			
roblematic Hydrophytic	: Vegetatic	on¹ (Expla	ain)
	_		
ators of hydric soil and vesent, unless disturbed o			must
		nauc.	
itions of Vegetation St	ırata.		
- Woody plants 3 in. (7.6			
ter at breast height (DB	3H), regard	diess of h	ieight.
ng/shrub – Woody plan)BH
reater than or equal to 3	3.28 ft (1 n	n) tall.	
– All herbaceous (non-w	woody) pla	ants, rega	ardless
e, and woody plants less	s than 3.2	8 ft tall.	
ly vines – All woody vin	nes greate	er than 3.2	28 ft in
i.	g		
ophytic ation			
ent? Yes	X No		

SOIL

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

Party Footures

Depth	Matrix	ie to the de	epth needed to docu Redo	x Feature		.01 01 001	minimule absence	or malcators.
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	7.5YR 4/2	95	7.5YR 4/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations
7-16	7.5YR 4/2	95	7.5YR 4/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
16-20	7.5YR 5/6	100					Loamy/Clayey	
		epletion, RN	M=Reduced Matrix, C	S=Cove	red or Co	ated Sar		cation: PL=Pore Lining, M=Matrix.
	il Indicators:		Dahmahia Dalam	. C	· (CO) /L F	ND D		or Problematic Hydric Soils ³ :
_	sol (A1)	-	Polyvalue Below	/ Surface	(S8) (LF	KK K,		reck (A10) (LRR K, L, MLRA 149B)
_	Epipedon (A2)		MLRA 149B)	oo (CO) (AL DA 44		rairie Redox (A16) (LRR K, L, R)
_	Histic (A3)		Thin Dark Surface				-	icky Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)	-	High Chroma Sa			-		e Below Surface (S8) (LRR K, L)
_	ied Layers (A5)		Loamy Mucky M			K, L)		rk Surface (S9) (LRR K, L)
Deple	ted Below Dark Surfa	ace (A11)	Loamy Gleyed N	/latrix (F2	2)		Iron-Man	nganese Masses (F12) (LRR K, L, R)
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmon	nt Floodplain Soils (F19) (MLRA 149B
Sandy	/ Mucky Mineral (S1)		Redox Dark Sur	face (F6))		Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
Sandy	Gleyed Matrix (S4)	_	Depleted Dark S	Surface (l	F7)		Red Pare	ent Material (F21)
Sandy	Redox (S5)	•	Redox Depressi	ons (F8)			Very Sha	allow Dark Surface (TF12)
Stripp	ed Matrix (S6)	•	Marl (F10) (LRR	K, L)			Other (E	xplain in Remarks)
	Surface (S7)	•		. ,				,
	, , , ,		vetland hydrology mu	ıst be pre	esent, un	ess distu	rbed or problematic	λ
Type: C	e Layer (if observed	a):						
Depth (ii		20					Hydric Soil Pre	esent? Yes X No
emarks:	<u> </u>						1 ,	
	is revised from North	ncentral and	Northeast Pegional	Sunnlen	nant Vare	ion 2 0 to	reflect the NPCS F	Field Indicators of Hydric Soils version
	Frrata. (http://soils.us			Ouppicii	icht vers	1011 2.0 10	Tellect the Mixoo I	icia indicators of riyane cons version
	(3	,,					

Project/Site: Somerset Solar	City/County: Sor	merset/Niagara	Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: WB2
Investigator(s): A Cimpi	Section, Townsh	nip, Range:	
Landform (hillside, terrace, etc.): Depression		ve, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L	at: 43.357558	Long: -78.618547	Datum: WGS 84
Soil Map Unit Name: Arkport very fine sandy loam,		NWI classifi	ication:
Are climatic / hydrologic conditions on the site typical			
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" pre	,
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site r	nap showing sampling po	int locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Samp	oled Area	
Hydric Soil Present? Yes X			No
Wetland Hydrology Present? Yes X	No If yes, option	nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in	Tu sopulate ropolity		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)		il Cracks (B6)
X Surface Water (A1)	Water-Stained Leaves (B9)	X Drainage Pa	
High Water Table (A2)	Aquatic Fauna (B13)	X Moss Trim I	
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	· —	Visible on Aerial Imagery (C9) Stressed Plants (D1)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S		c Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	X Shallow Aq	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_ Guier (Explain in Normanio)	FAC-Neutra	
Field Observations:	T		
	Depth (inches): 1		
Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches): 1 Depth (inches): Depth (inches):	Wetland Hydrology Present	t? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Remarks.			

	Absolute	Dominant	Indicator		
ree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:	
·				Number of Deminent Chasics	
				Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
					`` '
				Total Number of Dominant	4 (D)
-				Species Across All Strata:	1 (B)
·				Percent of Dominant Species	
·				That Are OBL, FACW, or FAC: 10	0.0% (A/B)
				Prevalence Index worksheet:	
		=Total Cover		Total % Cover of: Mult	iply by:
apling/Shrub Stratum (Plot size: 15)			OBL species 0 x 1 =	0
·				FACW species 0 x 2 =	0
				FAC species 15 x 3 =	
				FACU species 0 x 4 =	
•				UPL species 0 x 5 =	
·				Column Totals: 15 (A)	
· .				Prevalence Index = B/A =	3.00
				Hydrophytic Vegetation Indicators:	
		=Total Cover		1 - Rapid Test for Hydrophytic Vege	etation
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%	
Dryopteris intermedia	15	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Pro	vide supporting
·				data in Remarks or on a separate	
·				Problematic Hydrophytic Vegetation	n ¹ (Explain)
-				¹ Indicators of hydric soil and wetland hy be present, unless disturbed or problem	
-				·	ialic.
				Definitions of Vegetation Strata:	
•				Tree – Woody plants 3 in. (7.6 cm) or m	
				diameter at breast height (DBH), regard	lless of height.
0				Sapling/shrub – Woody plants less tha	ın 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m	
2.				Harb All barbassaus (non woody) pla	nta ragardlasa
	15	=Total Cover		Herb – All herbaceous (non-woody) plated of size, and woody plants less than 3.28	
Voody Vine Stratum (Plot size: 30					
				Woody vines – All woody vines greater height.	than 3.28 ft in
				neight.	
-				Hydrophytic	
				Vegetation	
<u> </u>					

SOIL Sampling Point: WB2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 0-8 10YR 4/2 90 10YR 5/6 10 С Loamy/Clayey Prominent redox concentrations M 10YR 6/2 90 10YR 6/8 С 8-18 10 M Loamy/Clayey Prominent redox concentrations ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/3/21
Applicant/Owner: AES	State: NY Sampling Point: WB3
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3566	79.649062
Soil Map Unit Name: Collamer silt loam, 2 to 6 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrologysignifi	``````
Are Vegetation, Soil, or Hydrologynatura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	
 -	x Drainage Patterns (B10)
	auna (B13) X Moss Trim Lines (B16)
Saturation (A3) Marl Depo	
	Sulfide Odor (C1) Crayfish Burrows (C8) Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	on Reduction in Tilled Soils (C6) Geomorphic Position (D2)
	Surface (C7) X Shallow Aquitard (D3)
	plain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (ir	nches):1
Water Table Present? Yes No X Depth (ir	nches):
Saturation Present? Yes No _X Depth (ir	nches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspections), if available:
Remarks:	
ivemarks.	

<u>Tree Stratum</u> (Plot size: 30)	Absolute	Dominant	Indicator		
(: iot oizo:	% Cover	Species?	Status	Dominance Test worksheet:	
1.				Number of Bassis and Casasis	
2				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
					(; ,
				Total Number of Dominant	(5)
4				Species Across All Strata:	(B)
5				Percent of Dominant Species	
6				That Are OBL, FACW, or FAC:	100.0% (A/B
7				Prevalence Index worksheet:	
		=Total Cover		Total % Cover of:	fultiply by:
Sapling/Shrub Stratum (Plot size: 15)	•		OBL species 0 x 1 =	0
1. Ribes americanum	^ 	Yes	FACW	FACW species 20 x 2 =	
		· 	17.077		
	· ·	· <u> </u>			0
3				FACU species 0 x 4 =	
ł				UPL species 0 x 5 =	0
5				Column Totals: 20 (A)	40(B
S				Prevalence Index = B/A =	2.00
7.				Hydrophytic Vegetation Indicators	 5:
		=Total Cover		1 - Rapid Test for Hydrophytic V	
Jorh Stratum (Plataiza: 5		-10101 00101		X 2 - Dominance Test is >50%	ogotation
Herb Stratum (Plot size: 5	4.0		E4 0)4/		
1. Impatiens capensis	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0¹	
2				4 - Morphological Adaptations ¹ (
3				data in Remarks or on a sepa	rate sneet)
4				Problematic Hydrophytic Vegeta	
				T Tobicinatic Tryatophytic Vegeta	ition (Explain)
_				1	
5.				¹ Indicators of hydric soil and wetland	hydrology must
5				¹ Indicators of hydric soil and wetland be present, unless disturbed or probl	hydrology must
5. 6. 7.				¹ Indicators of hydric soil and wetland	hydrology must
5. 6. 7.				¹Indicators of hydric soil and wetland be present, unless disturbed or probl Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of	hydrology must ematic.
5. 6. 7.				¹ Indicators of hydric soil and wetland be present, unless disturbed or probl Definitions of Vegetation Strata :	hydrology must ematic.
5. 6. 7. 3.				¹Indicators of hydric soil and wetland be present, unless disturbed or probl Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg	hydrology must lematic. or more in ardless of height
5				¹Indicators of hydric soil and wetland be present, unless disturbed or probl Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of	hydrology must lematic. or more in ardless of height than 3 in. DBH
5				¹Indicators of hydric soil and wetland be present, unless disturbed or problem Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall.
5				¹Indicators of hydric soil and wetland be present, unless disturbed or problem Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), regular solutions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), regular solutions of the solution of	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall.
5		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), regular sand greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.
5. 6. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg. Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3. Woody vines – All woody vines greater	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.
5		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), regular sand greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.
5		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg. Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3. Woody vines – All woody vines greatheight.	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.
5		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg. Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3. Woody vines – All woody vines greater	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.
5		=Total Cover		¹Indicators of hydric soil and wetland be present, unless disturbed or problem. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) of diameter at breast height (DBH), reg. Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (Herb – All herbaceous (non-woody) of size, and woody plants less than 3. Woody vines – All woody vines greatheight. Hydrophytic Vegetation	hydrology must lematic. or more in ardless of height than 3 in. DBH 1 m) tall. plants, regardles 3.28 ft tall.

SOIL

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

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

Depth	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 4/2	90	10YR 5/6	10	С	M	Loamy/Clayey	Prominent redox concentrations		
8-18	10YR 6/2	90	10YR 6/8	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
					<u> </u>					
¹Type: C=	Concentration D=De	pletion. R	M=Reduced Matrix, C	S=Cove	red or Co	ated San	d Grains. ² Loo	cation: PL=Pore Lining, M=Matrix.		
	il Indicators:	prodon, re	WI-I TOURDOU WARIN, O	0-0010	.04 0. 00	atou our		or Problematic Hydric Soils ³ :		
•	sol (A1)		Polyvalue Below	Surface	(S8) (LR	RR,		ck (A10) (LRR K, L, MLRA 149B)		
Histic	Epipedon (A2)		MLRA 149B)				Coast Pr	rairie Redox (A16) (LRR K, L, R)		
Black	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, N	ILRA 149	9B)5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)		
X Hydro	gen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR k	(, L)	Polyvalu	e Below Surface (S8) (LRR K, L)		
Stratif	ied Layers (A5)		Loamy Mucky M	ineral (F	1) (LRR I	K , L)	Thin Dar	k Surface (S9) (LRR K, L)		
Deple	ted Below Dark Surfa	ce (A11)	Loamy Gleyed N	/latrix (F2	2)		Iron-Man	nganese Masses (F12) (LRR K, L, R)		
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Mucky Mineral (S1) Redox Dark Surface (F6))		Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)				Red Parent Material (F21)			
Sandy Redox (S5)			Redox Depressions (F8)				Very Shallow Dark Surface (TF12)			
Stripped Matrix (S6)			Marl (F10) (LRR K, L)				Other (E	xplain in Remarks)		
Dark S	Surface (S7)									
	of hydrophytic veget		wetland hydrology mu	st be pre	esent, unl	ess distu	rbed or problematic	<u>.</u>		
Type:	• •	,								
Depth (ii	nches):						Hydric Soil Pre	esent? Yes X No No		
Remarks:										
				Supplem	nent Versi	ion 2.0 to	reflect the NRCS F	Field Indicators of Hydric Soils version		
8.1 2017 E	Errata. (http://soils.usc	ia.gov/use	/nyanc)							

Project/Site: Somerset Solar		C	ity/County: Sc	merset/Niagara	а	Sampling Date:	5/3/21		
Applicant/Owner: AES					State:	NY Sampling	Point: UB1/2/3		
Investigator(s): A Cimpi		S	ection, Towns	hip, Range:					
Landform (hillside, terrace, etc.): Sideslope	_		ave, convex, no	ne): Convex	Slo	pe (%): 0-2		
Subregion (LRR or MLRA): LR	R L Lat:	43.357567		Long: -7	8.618716	 Datur	n: WGS 84		
Soil Map Unit Name: Arkport		-	pes		NWI classif	ication:			
Are climatic / hydrologic conditi				X No	(If no, explain				
Are Vegetation, Soil _		_	-		rcumstances" pr	,	X No_		
Are Vegetation, Soil _	, or Hydrology	naturally prol	blematic?	(If needed, exp	lain any answers	s in Remarks.)			
SUMMARY OF FINDING				int location	s, transects,	, important fea	tures, etc.		
Hydrophytic Vegetation Prese	nt? Yes	No X	Is the Sam	pled Area			,		
Hydric Soil Present?	Yes		within a W	-	Yes	NoX			
Wetland Hydrology Present?	Yes	No X	If yes, optic	nal Wetland Si					
Remarks: (Explain alternative	procedures here or in a	a separate report.)	l						
HADBOI OCA									
HYDROLOGY					0 1 1 1				
Wetland Hydrology Indicato						cators (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 (Drainage Patterns (B10)					
High Water Table (A2)		Aquatic Fauna (B13)			Moss Trim Lines (B16)				
Saturation (A3)		Marl Deposits (B			Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Water Marks (B1)		Hydrogen Sulfide		a Dooto (C2)	Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2)		Oxidized Rhizosp							
Drift Deposits (B3)		Presence of Red			Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		Recent Iron Redu		Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)		Thin Muck Surface (C7)			Shallow Aquitard (D3)				
Inundation Visible on Aeri		Other (Explain in Remarks)			Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Sparsely Vegetated Conc	ave Surface (B8)				FAC-Neutra	al Test (D5)			
Field Observations:									
Surface Water Present?	Yes No X	Depth (inches):							
Water Table Present?	Yes No X	Depth (inches):							
Saturation Present?	Yes No X	Depth (inches):		Wetland Hyd	drology Present	t? Yes	No X		
(includes capillary fringe)									
Describe Recorded Data (stre	am gauge, monitoring v	vell, aerial photos,	previous inspe	ections), if avail	lable:				
Demorker									
Remarks:									

VEGETATION – Use scientific names of plants. Sampling Point: UB1/2/3 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status FACU 45 Acer saccharum Yes **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. Quercus rubra Yes **FACU** (A) Fagus grandifolia 15 No **FACU Total Number of Dominant** 10 4. Ostrya virginiana **FACU** Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 100 x 4 =**UPL** species 65 x 5 = 325 Column Totals: 165 725 (A) (B) 6. Prevalence Index = B/A = 4.39 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Erythronium americanum 65 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 65 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UB1/2/3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 7.5YR 4/3 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara		Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: WB4
Investigator(s): A Cimpi	Section, Township, Range:		
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none	e): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3	257377 Long: -78.61	7377	Datum: WGS 84
Soil Map Unit Name: Galen very fine sandy loam, 2 to 6 per		NWI classific	
Are climatic / hydrologic conditions on the site typical for this		(If no, explain i	
Are Vegetation, Soil, or Hydrologys	· — —		
Are Vegetation, Soil, or Hydrologyr	aturally problematic? (If needed, explain	in any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map sl	nowing sampling point locations	, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area		
Hydric Soil Present? Yes X No		Yes X	No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site		•
Remarks: (Explain alternative procedures here or in a sepa	rate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:	<u>s</u>	econdary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all the		Surface Soil	
l 	r-Stained Leaves (B9)	Drainage Pa	
		X Moss Trim L	
l 	Deposits (B15)		Water Table (C2)
l ——	ogen Sulfide Odor (C1)	Crayfish Bur	
	zed Rhizospheres on Living Roots (C3)		isible on Aerial Imagery (C9) stressed Plants (D1)
l —	ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6)		Position (D2)
l ——		X Shallow Aqu	` '
 -	(Explain in Remarks)		aphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral	
Field Observations:			
	th (inches):		
Surface Water Present? Yes No X Dep Water Table Present? Yes X No X Dep	th (inches):		
Saturation Present? Yes X No X Dep	oth (inches): 0 Wetland Hydr	ology Present?	? Yes X No
(includes capillary fringe)	· /	o,	
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if availal	ble:	
Remarks:			

<u>Tree Stratum</u> (Plot size: 30)	Absolute	Dominant	Indicator			
, in the second of the second	% Cover	Species?	Status	Dominance Test worksheet:		
				Number of Deminent Charles		
2.				Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
-						(, ,)
-				Total Number of Dominant	•	(D)
l				Species Across All Strata:	3	(B)
j				Percent of Dominant Species		
ö				That Are OBL, FACW, or FAC:	100.0%	(A/B)
·				Prevalence Index worksheet:		
		=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)			OBL species 0 x 1 =	: 0	_
		Yes	FACW	·	70	_
		103	TAOW			_
-						_
					=0	_
				UPL species 0 x 5 =	= 0	_
				Column Totals: 55 (A)	130	(B)
i				Prevalence Index = B/A =	2.36	
·				Hydrophytic Vegetation Indicator	s:	
		=Total Cover		1 - Rapid Test for Hydrophytic		
Jorb Stratum (Diot size: E)		-10tal 00101		X 2 - Dominance Test is >50%	· ogotation	
Herb Stratum (Plot size: 5)		.,	=			
. Agrimonia parviflora		Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹		
2. Osmundastrum cinnamomeum	25	Yes	FACW	4 - Morphological Adaptations ¹		porting
3				data in Remarks or on a sepa	arate sheet)	
1				Problematic Hydrophytic Veget	ation ¹ (Explair	n)
i.				11 attactors of books and and on the	d les salared e est see	
				¹ Indicators of hydric soil and wetland be present, unless disturbed or prob		iust
				Definitions of Vegetation Strata:		
				Definitions of Vegetation Strata.		
l				Tree – Woody plants 3 in. (7.6 cm)		
)				diameter at breast height (DBH), req	gardless of he	∍ight.
				Sapling/shrub – Woody plants less	than 3 in DE	ЗН
0					unan o m. De	
				and greater than or equal to 3.28 ft		
1.				and greater than or equal to 3.28 ft	(1 m) tall.	
11.		=Total Cover		and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody)	(1 m) tall. plants, regare	
11		=Total Cover		and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than	(1 m) tall. plants, regard 3.28 ft tall.	rdless
1. 2. Voody Vine Stratum (Plot size: 30				and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than Woody vines – All woody vines gre	(1 m) tall. plants, regard 3.28 ft tall.	rdless
1				and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than	(1 m) tall. plants, regard 3.28 ft tall.	rdless
Noody Vine Stratum (Plot size: 30				and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than Woody vines – All woody vines greheight.	(1 m) tall. plants, regard 3.28 ft tall.	rdless
Moody Vine Stratum (Plot size: 30				and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than Woody vines – All woody vines gre	(1 m) tall. plants, regard 3.28 ft tall.	rdless
11				and greater than or equal to 3.28 ft Herb – All herbaceous (non-woody) of size, and woody plants less than Woody vines – All woody vines gre height. Hydrophytic Vegetation	(1 m) tall. plants, regard 3.28 ft tall.	rdless

SOIL Sampling Point: WB4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 0-20 10YR 2/1 90 10YR 5/1 10 С Loamy/Clayey Distinct redox concentrations Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar		City/County: Sc	ounty: Somerset/Niagara Sampling Date: 5/3/21		
Applicant/Owner: AES			Stat	te: NY Sampling Point: UB4	
Investigator(s): A Cimpi		Section, Towns	hip. Range:		
Landform (hillside, terrace, etc.):			ave, convex, none): Conve	ex Slope (%): 0-2	
Subregion (LRR or MLRA): LRR L	Lat: 43.3573		Long: -78.617368	Datum: WGS 84	
Soil Map Unit Name: Galen very	Lat.				
				classification:	
Are climatic / hydrologic conditions		-	 , · ·	xplain in Remarks.)	
Are Vegetation, Soil			Are "Normal Circumstance		
Are Vegetation, Soil	, or Hydrologynatura	ally problematic?	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS -	 Attach site map show 	ing sampling po	oint locations, transe	ects, important features, etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sam	uplod Aroa		
Hydric Soil Present?	Yes No X		-	No X	
Wetland Hydrology Present?	Yes No X		onal Wetland Site ID:	<u>~</u>	
Remarks: (Explain alternative pro					
Tromanior (Explain allomalité pro	ooda.ooo.o o a oopa.a.o .	GP 5)			
				_	
HYDROLOGY					
Wetland Hydrology Indicators:				/ Indicators (minimum of two required)	
Primary Indicators (minimum of or				ce Soil Cracks (B6)	
Surface Water (A1)		ined Leaves (B9)		age Patterns (B10)	
High Water Table (A2)	Aquatic Fa			Trim Lines (B16)	
Saturation (A3)	Marl Depo	sits (B15)	Dry-Se	eason Water Table (C2)	
Water Marks (B1)		Sulfide Odor (C1)		sh Burrows (C8)	
Sediment Deposits (B2)	Oxidized R	Rhizospheres on Livir	ng Roots (C3) Satura	ation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence e	of Reduced Iron (C4)	Stunte	ed or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iro	n Reduction in Tilled	Soils (C6) Geom	orphic Position (D2)	
Iron Deposits (B5)	Thin Muck	Surface (C7)	Shallo	ow Aquitard (D3)	
Inundation Visible on Aerial In	nagery (B7) Other (Exp	olain in Remarks)	Microt	topographic Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)		FAC-N	Neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	s No X Depth (in	iches):			
Water Table Present? Yes	s No X Depth (in	iches):			
Saturation Present? Yes	s	nches):	Wetland Hydrology Pre	esent? Yes No_X_	
(includes capillary fringe)		′ 	, 0,		
Describe Recorded Data (stream	gauge, monitoring well, aerial r	hotos, previous insp	ections), if available:		
	J	,	,,		
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: UB4 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 40 Acer saccharum Yes FACU **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. Ostrya virginiana No **FACU** (A) Fagus grandifolia 50 Yes **FACU Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 100 x 4 =**UPL** species 65 x 5 = 325 Column Totals: 165 725 (A) (B) 6. Prevalence Index = B/A = 4.39 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Erythronium americanum 65 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 65 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes ____ No _X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 7.5YR 4/3 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Clay Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/3/21
Applicant/Owner: AES	State: NY Sampling Point: WB5
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.352497	
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	
	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation, Soil, or Hydrology significations.	
Are Vegetation, Soil, or Hydrologynaturally	
<u> </u>	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate re Wetland within active cornfield. Not currently vegetated	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)
X Surface Water (A1) Water-Staine	ed Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faul	
Saturation (A3) — Marl Deposit	
	ulfide Odor (C1) Crayfish Burrows (C8)
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	
X Inundation Visible on Aerial Imagery (B7) Other (Explain Sparsely Vegetated Concave Surface (B8)	ain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
	FAC-Neutral Test (D5)
Field Observations:	hardy 0
Surface Water Present? Yes X No Depth (incl.	nes): 3
Water Table Present? Yes No X Depth (incl Saturation Present? Yes No X Depth (incl	hes): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	hes): Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos previous inspections) if available:
Describe recorded Data (oreall gauge, monitoring won, denial pri	otos, previous inspessions), ii availusie.
Demode	
Remarks:	

VEGETATION – Use scientific names of	oi piants.			Sampling	Point:	WB5
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet	:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC		(A)
3.				Total Number of Dominant Species Across All Strata:		(B)
5.				Percent of Dominant Species		(5)
6.				That Are OBL, FACW, or FAC		(A/B)
7.				Prevalence Index workshee	t:	
	:	=Total Cover		Total % Cover of:	Mul	tiply by:
Sapling/Shrub Stratum (Plot size: 15)			OBL species	x 1 =	
1.				FACW species		
2.				FAC species		
3.				FACU species	·	
1				UPL species		
				Column Totals:		
				Prevalence Index = B/		(5)
7				Hydrophytic Vegetation Ind		
· .		=Total Cover				estation
Harb Otratura (Distraina	·	= Fotal Cover		1 - Rapid Test for Hydrop		etation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >5		
1				3 - Prevalence Index is ≤		
2. 3.				4 - Morphological Adapta data in Remarks or on		
4.				Problematic Hydrophytic	Vegetatio	n¹ (Explain)
5. 6.				¹ Indicators of hydric soil and v		
7.				Definitions of Vegetation St	rata:	
8. 9.				Tree – Woody plants 3 in. (7. diameter at breast height (DB		
10.				Sapling/shrub – Woody plan		
11.				and greater than or equal to 3	3.28 ft (1 n	n) tall.
12.		=Total Cover		Herb – All herbaceous (non-vof size, and woody plants less		
Woody Vine Stratum (Plot size: 30)			Woody vines – All woody vin height.	es greate	r than 3.28 ft in
2.						
2				Hydrophytic		
4.				Vegetation Present? Yes	X No	•
·		-Total Cover		11030111	<u> </u>	
Remarks: (Include photo numbers here or on a No vegetation currently, assumed hydrophytes	separate sheet.)	=Total Cover in the growing	ı season.			

SOIL Sampling Point: WB5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Some	rset/Niagara	Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: WB6
Investigator(s): A Cimpi	Section, Township,	Range:	
Landform (hillside, terrace, etc.): Depression		, convex, none): Concave	Slope (%): 0-2
	43.352478	Long: -78.618118	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent		NWI classifi	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	· · · · · · · · · · · · · · · · · · ·	"Normal Circumstances" pre	,
Are Vegetation , Soil , or Hydrology		needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes	No 0 Is the Sample	d Area	
Hydric Soil Present? Yes X	No within a Wetla		No X
Wetland Hydrology Present? Yes X	No If yes, optional	Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a s Wetland within active cornfield. Not currently vegetated	eparate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check a	ıll that apply)		il Cracks (B6)
1 	Vater-Stained Leaves (B9)		atterns (B10)
- 	quatic Fauna (B13)	Moss Trim I	
l 	Marl Deposits (B15)		Water Table (C2)
l 	lydrogen Sulfide Odor (C1)	Crayfish Bu	
	Oxidized Rhizospheres on Living R		Visible on Aerial Imagery (C9)
l — · · · · · · —	resence of Reduced Iron (C4)		Stressed Plants (D1)
<u> </u>	Recent Iron Reduction in Tilled Soi		c Position (D2)
 -	hin Muck Surface (C7)	Shallow Aqu	
	Other (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutra	al Test (D5)
Field Observations:			
Surface Water Present? Yes X No	Depth (inches): 3		
Water Table Present? Yes No _X	Depth (inches): 3 Depth (inches): W		
	Depth (inches): W	Vetland Hydrology Present	? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring we	l, aerial photos, previous inspection	ons), if available:	
Domoska			
Remarks:			

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
			Number of Dominant Species That Are OBL, FACW, or FAC	(A)
			Total Number of Dominant Species Across All Strata:	(B)
			·	(2)
_				(A/E
			Prevalence Index worksheet	:
	=Total Cover		Total % Cover of:	Multiply by:
)			OBL species	x 1 =
				x 2 =
				x 3 =
			· · · · · · · · · · · · · · · · · · ·	x 5 =
				•
	-10tal 00v0l			
			 	
_				
			l ——	
			Problematic Hydrophytic \	egetation ¹ (Explain)
			Definitions of Vegetation Str	ata:
			and greater than or equal to 3.	28 π (1 m) tall.
	=Total Cover			
_)			Woody vines – All woody vine height.	es greater than 3.28 ft i
			Hydrophytic	
			_	No
	-Total Cover		Troscite: Too X	
parate sheet.)		season.	<u> </u>	
	parate sheet.)	=Total Cover =Total Cover =Total Cover =Total Cover =Total Cover =Total Cover	=Total Cover =Total Cover =Total Cover =Total Cover =Total Cover =Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FAC species UPL species UPL species Column Totals: Prevalence Index = B/A Hydrophytic Vegetation India 1 - Rapid Test for Hydroph 2 - Dominance Test is >50 3 - Prevalence Index is ≤3 4 - Morphological Adaptatidata in Remarks or on a Problematic Hydrophytic V 1 Indicators of hydric soil and we be present, unless disturbed on Definitions of Vegetation Str Tree — Woody plants 3 in. (7.6 diameter at breast height (DBH-Sapling/Shrub — Woody plants and greater than or equal to 3. Herb — All herbaceous (non-word size, and woody plants less Woody vines — All woody vines height. Hydrophytic Vegetation Present? Yes X

SOIL Sampling Point: WB6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: S	omerset/Niagara	Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: UB5/6
Investigator(s): A Cimpi	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): Sideslope	Local relief (conc	ave, convex, none): Convex	Slope (%): 0-2
	43.352533	Long: -78.61774	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 perce		NWI classi	
Are climatic / hydrologic conditions on the site typical			n in Remarks.)
Are Vegetation, Soil, or Hydrology	•	Are "Normal Circumstances" pr	,
Are Vegetation , Soil , or Hydrology		(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site n		oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No X Is the Sam	npled Area	
Hydric Soil Present? Yes		•	No X
Wetland Hydrology Present? Yes	No X If yes, option	onal Wetland Site ID:	<u> </u>
Remarks: (Explain alternative procedures here or in	n a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface Sc	oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livi		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	· —	Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled		ic Position (D2) quitard (D3)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_ Other (Explain in Kemarks)		al Test (D5)
Field Observations: Surface Water Present? Yes No X	Donth (inches):		
Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches): Depth (inches):	Wetland Hydrology Presen	t? Yes No_X_
(includes capillary fringe)		,	· · · · · · · · · · · · · · · · · · ·
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous insp	ections), if available:	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: UB5/6 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/3/21
Applicant/Owner: AES	State: NY Sampling Point: WB7
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.352491	Long: -78.619468 Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 2 to 6 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignifican	ntly disturbed?
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 0	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No _ X
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep Wetland within active cornfield. Not currently vegetated	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	· ,
l 	ed Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faun	
Saturation (A3)Marl Deposits	
I 	ulfide Odor (C1) Crayfish Burrows (C8)
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Reduced Iron (C4) Stunted or Stressed Plants (D1)
l 	Reduced Iron (C4) Stunted or Stressed Plants (D1) Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck St	
I 	in in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	<u> </u>
Surface Water Present? Yes X No Depth (inch	nes): 3
Water Table Present? Yes No X Depth (inch	nes):
Saturation Present? Yes No X Depth (inch	mes): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

of plants.			Samplin	g Point:	WB7
Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshee	t:	
					(A)
			Total Number of Dominant		(B)
			·		(5)
			·		(A/B)
			Prevalence Index workshe	et:	
	=Total Cover		Total % Cover of:	Mul	tiply by:
)			OBL species	x 1 =	
			FACW species	x 2 =	
			FAC species	x 3 =	
			FACU species	x 4 =	
			UPL species	x 5 =	
			· · · · · · · · · · · · · · · · · · ·		
					· · · · · · · · · · · · · · · · · · ·
			Hydrophytic Vegetation In-	dicators:	
					etation
					
				_	
					ovide supporting
			I		
			Problematic Hydrophytic	Vegetatio	n ¹ (Explain)
			Definitions of Vegetation S	trata:	
			- '		
			Herb - All herbaceous (non-	woody) pla	ints, regardless
	=Total Cover		of size, and woody plants les	s than 3.2	8 ft tall.
)			Woody vines – All woody vineight.	nes greate	r than 3.28 ft in
			Hydrophytic		
			_	X No	
	=Total Cover				
a separate sheet.)		season.			
	Absolute % Cover	Absolute % Cover Species? ———————————————————————————————————		Absolute % Cover Species? Indicator Status Dominance Test workshee Number of Dominant Specie That Are OBL, FACW, or FA Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FA Prevalence Index workshee Total % Cover of: OBL species FACW species FACW species FACU species UPL species UPL species UPL species UPL species Thy Total % Cover of: a Total Cover Total Cover Total Cover Total % Cover of: Definitions of Vegetation Indicators of hydric soil and be present, unless disturbed be present, unless disturbed Definitions of Vegetation S Tree — Woody plants 3 in. (7 diameter at breast height (DI Sapling/shrub — Woody plants 1 es Woody vines — All woody vineight. Hydrophytic Vegetation Present? Yes	Absolute % Cover Species? Status Dominance Test worksheet:

SOIL Sampling Point: WB7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Som	erset/Niagara	Sampling Date: 5/3/21
Applicant/Owner: AES		State:	NY Sampling Point: WB8
Investigator(s): A Cimpi	Section, Township	o, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave	e, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat:	43.35267	Long: -78.614403	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent		NWI classif	
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes	X No (If no, explain	
Are Vegetation, Soil, or Hydrology		re "Normal Circumstances" pro	,
Are Vegetation, Soil, or Hydrology	naturally problematic? (If	needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling poir	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	No 0 Is the Sampl	ed Area	
Hydric Soil Present? Yes X	No within a Wet		No X
Wetland Hydrology Present? Yes X	No If yes, optiona	al Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a s Wetland within active cornfield. Not currently vegetated	eparate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check a			il Cracks (B6)
1 	/ater-Stained Leaves (B9)		atterns (B10)
 -	quatic Fauna (B13)		Lines (B16)
	larl Deposits (B15)		n Water Table (C2)
l 	ydrogen Sulfide Odor (C1)	Crayfish Bu	
	xidized Rhizospheres on Living	· · · —	Visible on Aerial Imagery (C9)
<u> </u>	resence of Reduced Iron (C4)		Stressed Plants (D1)
I 	ecent Iron Reduction in Tilled So	· · · —	c Position (D2)
I — · · · · · —	hin Muck Surface (C7)	Shallow Aq	
	ther (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutra	al Test (D5)
Field Observations:			
Surface Water Present? Yes X No No	Depth (inches): 3		
Water Table Present? Yes No _X	Depth (inches): 3 Depth (inches):		
	Depth (inches):	Wetland Hydrology Present	t? Yes X No
(includes capillary fringe)		e:	
Describe Recorded Data (stream gauge, monitoring well	i, aeriai pnotos, previous inspec	tions), if available:	
Remarks:			-

VEGETATION – Use scientific names of pl	ants.			Sampling I	Point: V	VB8
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC	:	(A)
3.				Total Number of Dominant Species Across All Strata:		(B)
5				·		(D)
•				Percent of Dominant Species That Are OBL, FACW, or FAC		(A/B)
7				Prevalence Index worksheet		(,,,,,)
		=Total Cover		Total % Cover of:	Multiply	bv:
Sapling/Shrub Stratum (Plot size: 15)					x 1 =	
1					x 2 =	
2.					x 3 =	
3.				FACU species		
4.				<u></u>	x 5 =	
5.				Column Totals:		
6.				Prevalence Index = B/A		`` ′
7.				Hydrophytic Vegetation Indic	cators:	
		=Total Cover		1 - Rapid Test for Hydroph		on
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50	-	
1.				3 - Prevalence Index is ≤3	.0 ¹	
2.				4 - Morphological Adaptati data in Remarks or on a		
4.				Problematic Hydrophytic \	/egetation ¹ (E	xplain)
5. 6.				¹ Indicators of hydric soil and w be present, unless disturbed or		
7.				Definitions of Vegetation Str	ata:	
8. 9.				Tree – Woody plants 3 in. (7.6 diameter at breast height (DBI		
10.				Sapling/shrub – Woody plants	s less than 3	in. DBH
11.				and greater than or equal to 3.	28 ft (1 m) tai	l.
12		=Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less		
Woody Vine Stratum (Plot size: 30) 1.				Woody vines – All woody vine height.	es greater tha	n 3.28 ft in
2.						
3.				Hydrophytic Vegetation		
4.				Present? Yes X	No	
		=Total Cover				
Remarks: (Include photo numbers here or on a sep-	arate sheet.)		season.	rresent? Yes X	NO	

SOIL Sampling Point: WB8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar		C	ity/County: So	omerset/Niagara	a	_Sampling Date:	5/3/21
Applicant/Owner: AES					State:	NY Sampling	Point: UB7/8
Investigator(s): A Cimpi		Se	ection, Towns	hip, Range:			
Landform (hillside, terrace, etc.):	Sideslope			ave, convex, no	ne): Convex	Slo	ppe (%): 0-2
Subregion (LRR or MLRA): LRR I	Lat:	43.352616		Long: -78.	614197	,	m: WGS 84
Soil Map Unit Name: Niagara silt					NWI classif		
Are climatic / hydrologic conditions			2 Vaa	X No	(If no, explain		
Are Vegetation, Soil		-	-		cumstances" pr	,	X No
Are Vegetation , Soil				(If needed, expl	ain any answers	s in Remarks.)	
SUMMARY OF FINDINGS					-		itures, etc.
Hydrophytic Vegetation Present?	? Yes	No X	Is the Sam	pled Area			,
Hydric Soil Present?	Yes	No X	within a W	-	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	onal Wetland Sit			
HYDROLOGY							
Wetland Hydrology Indicators:						cators (minimum of	two required)
Primary Indicators (minimum of o	-		(DO)	 -		il Cracks (B6)	
Surface Water (A1)		Water-Stained Le	` '	-		atterns (B10)	
High Water Table (A2) Saturation (A3)		Aquatic Fauna (B Marl Deposits (B1		-		Lines (B16) n Water Table (C2)	
Water Marks (B1)		Hydrogen Sulfide		-	Crayfish Bu		
Sediment Deposits (B2)		Oxidized Rhizosp		na Roots (C3)		Visible on Aerial Im	nagery (C9)
Drift Deposits (B3)		Presence of Redu		-		Stressed Plants (D	
Algal Mat or Crust (B4)		Recent Iron Redu				c Position (D2)	,
Iron Deposits (B5)		Thin Muck Surfac		` ′	 Shallow Aq		
Inundation Visible on Aerial I	magery (B7)	Other (Explain in	Remarks)	•	Microtopog	raphic Relief (D4)	
Sparsely Vegetated Concave	e Surface (B8)			_	FAC-Neutra	al Test (D5)	
Field Observations:					·		
Surface Water Present? Y	es No X	Depth (inches):					
Water Table Present? Y	es No X es No X	Depth (inches):					
Saturation Present? Y	es No X	Depth (inches):		Wetland Hyd	Irology Present	t? Yes	No X
(includes capillary fringe)							
Describe Recorded Data (stream	ı gauge, monitoring we	ell, aerial photos,	previous insp	ections), if avail	able:		
Remarks:							
Remarks.							

VEGETATION – Use scientific names of plants. Sampling Point: **UB7/8** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB7/8** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Applicant/Owner: AES ACImpl Section, Township, Ranges: Local relief (concave, convex, none): Concave Slope (%): 0-2 Subregion (LRR or MLRA): LRR L Lat: 43.352679 Local relief (concave, convex, none): Concave Slope (%): 0-2 Subregion (LRR or MLRA): LRR L Soil Map Unit Name: Collamer silt loam, 2 to 6 percent slopes MVI classification: Ver climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Ver Vegetation Soil Or or Hydrology Indicators: SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (If needed and thydrology Present? Yes X No (If needed, explain any answers in Remarks.) Wetland Hydrology Indicators: Metland Hydrology Indicators: No Dys-Se
Subregion (LRR or MLRA): LRR L Lat: 43.352679 Long: -78.612715 Datum: WGS 84 Variety Variet
Subregion (LRR or MLRA): LRR Lat: 43.352679 Long: -78.612715 Datum: WGS 84 Soil Map Unit Name: Collamer sitt loam, 2 to 6 percent slopes NWI classification: vive climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) vive Vegetation Soil on the site typical for this time of year? Yes X No (If no, explain in Remarks.) vive Vegetation Soil on the site typical for this time of year? Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) vive Vegetation Present? Yes X No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (If yes, optional Wetland? Yes No X (If yes, optional Wetland? Yes No X (If yes, optional Wetland? Yes No X (If yes, optional Wetland Site ID: **PURDOLOGY** Wetland Hydrology Indicators: Primary Indicators (Innimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Moss Trin Lines (B16) Dry-Season Water Table (A2) Aquatic Fauna (B13) Moss Trin Lines (B16) Dry-Season Water Table (C2) Aquatic Fauna (B13) Moss Trin Lines (B16) Dry-Season Water Table (C2) Sediment Deposits (B3) Mart Deposits (B15) Dry-Season Water Table (C2) Sediment 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) Shallow Aquatard (D3) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Shallow Aquatard (D3) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Presence (B8) Presence (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Spattore (B16) Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches):
Subregion (LRR or MLRA): LRR Lat: 43.352679 Long: -78.612715 Datum: WGS 84 Soil Map Unit Name: Collamer sitt loam, 2 to 6 percent slopes NWI classification: vive climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) vive Vegetation Soil on or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No (If no, explain in Remarks.) vive Vegetation Soil on or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No (If no, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No (If yes, optional Wetland? Yes No X (If yes, optional Wetland Site ID: **PURDOLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) **Drainage Patterns (B10)
Soil Map Unit Name: Collamer silt loam, 2 to 6 percent slopes NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Or Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Substitution of Soil Present? Yes X No Substitution Present? Yes No X Depth (inches): Substitution Present? Yes X No Yes X No Yes Yes Yes X No Yes Yes X No Yes
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? YesX No No No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Within a Wetland? Yes No X Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Wetland Hydrology Indicators: Surface Soil Cracks (B6) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): Surface Water Hydrology Present? Yes X No Water Markers (P4) Wetland Hydrology Present? Yes X No Water Inches): Wetland Hydrology Present? Yes X No Water Inches): Wetland Hydrology Present? Yes X No Saturation (P4) Wetland Hydrology Present? Yes X No Water Inches): Wetland Hydrology Present? Yes X No Water Inches Hydr
Hydric Soil Present? Yes X No If yes, optional Wetland? Yes No X Wetland Hydrology Present! Yes It yes, optional Wetland Site ID: Primary Indicators (minimum of two required) Primary Indicators (minimum of two required) Primary Indicators (minimum of one is required) Primary Indicators (minimum of two required) Primary Indicators (primary Indicators (minimum of two required) Primary Indicators (primary Indicators (pr
Hydric Soil Present? Yes X No If yes, optional Wetland? Yes No X Wetland Hydrology Present! Yes It yes, optional Wetland Site ID: Primary Indicators (minimum of two required) Hydrology Indicators (minimum of two required)
Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (V3) Sufface Soil Cracks (B6) V3 (V4) V4) V4)
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 Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B45) Dry-Season Water Table (C2) X 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) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): Metland Hydrology Present? Yes X No Saturation Present? Yes No No De
Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water (B7) Field Observations: Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
X Surface Water (A1)
High Water Table (A2) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Saturation Present? Yes No X Depth (inches): Saturation (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Searon Present Imagery (B7) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
X 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) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No Wetland Hydrology Present? Yes X No (includes capillary fringe)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Factor Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Inundation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Feld Observations: Wetland Hydrology Present? Yes X No Inundation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Semonth of Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Semonth of Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Semonth of Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D1) Semonth of Stunted or Stressed Plants (D1) Semonth of Stunted or Stressed Plants (D1) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Figure 1 Semonth of Stunted or Stressed Plants (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitar
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes No X Depth (inches): Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
Algal Mat or Crust (B4) Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Seturation Present? Yes No X No Seturation Present? Yes X No Set
Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Wetland Hydrology Present? Yes X No (includes Capillary fringe)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes No X Depth (inches):
Surface Water Present? Yes X No Depth (inches): 3 Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
Water Table Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
ivellialive.

	bsolute Dominant			
1	6 Cover Species?	Indicator Status	Dominance Test workshee	t:
2.			Number of Dominant Species That Are OBL, FACW, or FA	
3			Total Number of Dominant	
4			Species Across All Strata:	(B)
5			Percent of Dominant Species That Are OBL, FACW, or FA	
7.			Prevalence Index workshee	 et:
	=Total Cover		Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			OBL species	·
			FACW species	
			FAC species	
	<u> </u>			<u></u>
			FACU species	
4			UPL species	
5.			Column Totals:	<u></u>
6.			Prevalence Index = B	· · · · · · · · · · · · · · · · · · ·
7			Hydrophytic Vegetation Inc	
_	=Total Cover	•	1 - Rapid Test for Hydro	phytic Vegetation
Herb Stratum (Plot size: 5			2 - Dominance Test is >	50%
1			3 - Prevalence Index is	≦3.0 ¹
2			4 - Morphological Adapta data in Remarks or on	
4.			Problematic Hydrophytic	: Vegetation ¹ (Explain)
5			¹ Indicators of hydric soil and be present, unless disturbed	
7.			Definitions of Vegetation S	trata:
8.			Tree – Woody plants 3 in. (7)	
9			diameter at breast height (DE Sapling/shrub – Woody plan	
11			and greater than or equal to	
12	=Total Cover		Herb – All herbaceous (non-of size, and woody plants les	
Woody Vine Stratum (Plot size:30) 1.			Woody vines – All woody vin height.	nes greater than 3.28 ft
			noight.	
			Hydrophytic	
3.			Vegetation	
			Present? Yes	<u> </u>
4	=Total Cover	•		

SOIL Sampling Point: WB9 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar	City/County: Somerset/Niagara	Sampling Date: 5/4/21
Applicant/Owner: AES	State:	NY Sampling Point: WB10
Investigator(s): A Cimpi	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3477	749 Long: -78.612256	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this tir	ne of year? Yes X No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrologysig	 ''	•
Are Vegetation, Soil, or Hydrologynat	urally problematic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	
Hydric Soil Present? Yes X No	within a Wetland? Yes X	No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:	<u> </u>
Remarks: (Explain alternative procedures here or in a separa Man-made pond with large trees surrounding.	te report.)	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that		l Cracks (B6)
l 	Stained Leaves (B9) X Drainage Pa	
	Fauna (B13) Moss Trim L	
 	· · · · · · · · · · · · · · · · · · ·	Water Table (C2)
I —	en Sulfide Odor (C1) Crayfish Bur	
l 		/isible on Aerial Imagery (C9) Stressed Plants (D1)
I — · · · · · · —	· /	(
 -	Iron Reduction in Tilled Soils (C6) X Geomorphic Surface (C7) Shallow Aqu	
	· · · · · · · · · · · · · · · · · · ·	, ,
Sparsely Vegetated Concave Surface (B8)	Explain in Remarks) Microtopogra FAC-Neutra	aphic Relief (D4)
	TAC-Neutra	1 1651 (D3)
Field Observations:	(Carlosa) 40	
Surface Water Present? Yes X No Depth	(inches): 18	
Water Table Present? Yes X No Depth Saturation Present? Yes X No Depth	(inches): 0	• • •
	(inches): 0 Wetland Hydrology Present*	? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeric	al photos, previous inspections), if available:	
Describe Nestriced Data (Stream gaage, monitoring well, delin	an priocos, proviodo irispectiono), ir dvalidate.	
Remarks:		

VEGETATION – Use scientific name	<u> </u>			Sampling	Point:	WB10
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC		(A)
3.				Total Number of Dominant Species Across All Strata:		(B)
5.				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC		(A/B)
7				Prevalence Index workshee	t:	
		=Total Cover		Total % Cover of:	Mult	iply by:
Sapling/Shrub Stratum (Plot size: 1	5)			OBL species	x 1 =	
1				FACW species	x 2 =	
2.				FAC species	x 3 =	
3				FACU species	x 4 =	
4.				UPL species	x 5 =	
5.				Column Totals:		
6.				Prevalence Index = B/A		
7.				Hydrophytic Vegetation Indi	icators:	
		=Total Cover		1 - Rapid Test for Hydrop		etation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >5	_	
				3 - Prevalence Index is ≤		
2				4 - Morphological Adapta		ovide supportin
3.				data in Remarks or on		
4				Problematic Hydrophytic	Vegetatio	n ¹ (Explain)
5.6.				¹ Indicators of hydric soil and w		
7.				Definitions of Vegetation St		
8. 9.				Tree – Woody plants 3 in. (7.6 diameter at breast height (DB		
10.				Sapling/shrub – Woody plan	ts less tha	an 3 in. DBH
11				and greater than or equal to 3		
12.		=Total Cover		Herb – All herbaceous (non-w of size, and woody plants less		_
Woody Vine Stratum (Plot size: 3	0)			Woody vines – All woody vin height.	es greate	r than 3.28 ft in
2.						
				Hydrophytic		
				Vegetation Present? Yes	/ No	
4		=Total Cover		Present? Yes	No No	
Remarks: (Include photo numbers here or No vegetation within wetland. Some shrubs	on a separate sheet.)		tion is assume	ed to be present later in growing	season.	

SOIL Sampling Point: **WB10** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 5/1 90 10YR 6/8 10 С Loamy/Clayey Prominent redox concentrations 0-18 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) ? Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar		City	y/County: Som	erset/Niagara		Sampling Da	te: 5/3/21
Applicant/Owner: AES					State:	NY Sampl	ling Point: UB9/10
Investigator(s): A Cimpi		Sec	ction, Township	o, Range:			
Landform (hillside, terrace, etc.):	Sideslope	Local	relief (concave	e, convex, none)	: Convex		Slope (%): 0-2
Subregion (LRR or MLRA): LRR	Lat:	43.347573	`	Long: -78.612			atum: WGS 84
Soil Map Unit Name: Collame					NWI classif		<u> </u>
Are climatic / hydrologic conditio			Ves	X No (_	in Remarks.)	
Are Vegetation , Soil		-		e "Normal Circu			es X No
Are Vegetation , Soil				needed, explain	·		73 X NO
SUMMARY OF FINDINGS					•	,	features, etc.
						, po a	
Hydrophytic Vegetation Presen		No X	Is the Sample		V	N. V	
Hydric Soil Present?	Yes		within a Wetl		Yes	NoX	
Wetland Hydrology Present?	Yes	No X	ir yes, optiona	al Wetland Site I	D:		
Remarks: (Explain alternative	procedures here or in a	separate report.)					
HYDROLOGY							
Wetland Hydrology Indicator	 S:			Se	condary Indic	cators (minimur	n of two required)
Primary Indicators (minimum of	one is required; check	all that apply)			Surface So	il Cracks (B6)	
Surface Water (A1) Water-Stained Leaves (B9)					– Drainage P	atterns (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 C			Crayfish Bu		<i>0</i> =/
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)	_		al Imagery (C9)
Drift Deposits (B3)		Presence of Reduc	_			Stressed Plants	• • • •
Algal Mat or Crust (B4)		Recent Iron Reduct		oils (C6)		c Position (D2)	
Iron Deposits (B5)		Thin Muck Surface			Shallow Aq	, ,	
					_		24)
Inundation Visible on Aeria	<u> </u>	Other (Explain in R	.emarks)		_	raphic Relief (D	<i>)</i> 4)
Sparsely Vegetated Conca	ve Surrace (B8)				FAC-Neutra	ai i est (D5)	
Field Observations:							
Surface Water Present?	Yes No X Yes No X	Depth (inches):					
Saturation Present?	Yes No X	Depth (inches):	'	Wetland Hydro	logy Present	t? Yes_	NoX
(includes capillary fringe)							
Describe Recorded Data (strea	m gauge, monitoring we	ell, aerial photos, p	revious inspec	tions), if availabl	e:		
Remarks:							

VEGETATION – Use scientific names of plants. Sampling Point: UB9/10 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UB9/10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar		City	//County: Somerse	et/Niagara	Sampling Date: 5/4/21	
Applicant/Owner: AES				State:	NY Sampling Point: UB10	
Investigator(s): A Cimpi		Sec	ction, Township, R	ange:		
Landform (hillside, terrace, etc.): Sideslope	Local	relief (concave, co	onvex, none): Convex	Slope (%): 0-2	
Subregion (LRR or MLRA): LR	R L Lat:	43.347573	L	ong: -78.612120	Datum: WGS 84	
Soil Map Unit Name: Collamer				NWI classii		
Are climatic / hydrologic conditi		or this time of year?	Yes X		in Remarks.)	
Are Vegetation, Soil _		-		Normal Circumstances" pr		
Are Vegetation , Soil				eded, explain any answer		
				, ,	, important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes 0	No X	Is the Sampled	Area		
Hydric Soil Present?	Yes		within a Wetland		NoX	
Wetland Hydrology Present?	Yes	No X	If yes, optional W	/etland Site ID:	<u> </u>	
Remarks: (Explain alternative Remnant plum orchard. No lor		separate report.)				
HYDROLOGY						
Wetland Hydrology Indicato	rs:			Secondary India	cators (minimum of two required)	
Primary Indicators (minimum		all that apply)		·	il Cracks (B6)	
Surface Water (A1) Water-Stained Leaves (B9)					atterns (B10)	
High Water Table (A2) Aquatic Fauna (B13)				Moss Trim Lines (B16)		
Saturation (A3)	<u> </u>	Marl Deposits (B15))	Dry-Season	n Water Table (C2)	
Water Marks (B1)		Hydrogen Sulfide O	Odor (C1)	Crayfish Bu	urrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe	eres on Living Roo	ots (C3) Saturation	Visible on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduc	` ,		Stressed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduct		· · · — ·	c Position (D2)	
Iron Deposits (B5)		Thin Muck Surface		Shallow Ac		
Inundation Visible on Aeri		Other (Explain in Re	emarks)		raphic Relief (D4)	
Sparsely Vegetated Conc	ave Surface (B8)		1	FAC-Neutr	al Test (D5)	
Field Observations:	V N V	D (1 (1)				
Surface Water Present?	Yes NoX Yes NoX	Depth (inches):				
Water Table Present? Saturation Present?				tland Hydrology Presen	12 Voc No V	
(includes capillary fringe)	Yes NoX	Depth (inches):		liand Hydrology Fresen	t? Yes No_X_	
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, pr	revious inspection	s), if available:		
	am gaage, memening n	o., aoa. po.oo, p.		(a), ii availas (c)		
Remarks:						

VEGETATION – Use scientific names of plants. Sampling Point: **UB10** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 45 Prunus americana UPL Yes **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 45 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 85 x 4 =UPL species 60 x 5 = 300 Column Totals: 145 640 (A) (B) 6. Prevalence Index = B/A = 4.41 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Poa pratensis 65 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Daucus carota 15 No UPL 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 15 Taraxacum officinale No **FACU** 5 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Dactylis glomerata No 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: UB10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar		City/County: So	merset/Niagara	Sampling Date: 5/4/21
Applicant/Owner: AES		_	State	: NY Sampling Point: WB11
Investigator(s): A Cimpi		Section, Towns	hip, Range:	
Landform (hillside, terrace, etc.): Depr	ession	 Local relief (conca	ave, convex, none): Concav	ve Slope (%): 0-2
Subregion (LRR or MLRA): LRR L	Lat: 43.347004	•	Long: -78.613620	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam	· · · · · · · · · · · · · · · · · · ·			assification:
Are climatic / hydrologic conditions on the		vear? Yes		plain in Remarks.)
Are Vegetation, Soil, o		-	Are "Normal Circumstances	
Are Vegetation , Soil , o			(If needed, explain any ans	· — —
SUMMARY OF FINDINGS – At			int locations, transe	cts, important features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sam	pled Area	
Hydric Soil Present?	Yes X No	within a W		X No
Wetland Hydrology Present?	Yes X No	If yes, option	nal Wetland Site ID:	
Remarks: (Explain alternative procedule Forested wetland within depression be				
HYDROLOGY				
Wetland Hydrology Indicators:			<u>Secondary</u>	Indicators (minimum of two required)
Primary Indicators (minimum of one is		•		e Soil Cracks (B6)
X Surface Water (A1)	X Water-Staine			ge Patterns (B10)
High Water Table (A2)	Aquatic Faun			rim Lines (B16)
Saturation (A3)	Marl Deposits			ason Water Table (C2)
X Water Marks (B1) Sodiment Deposits (B2)		ulfide Odor (C1)		h Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)		zospheres on Livir Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	ion Visible on Aerial Imagery (C9) If or Stressed Plants (D1)
Algal Mat or Crust (B4)		Reduction in Tilled		rphic Position (D2)
Iron Deposits (B5)	Thin Muck Su			Aquitard (D3)
Inundation Visible on Aerial Image		in in Remarks)		pographic Relief (D4)
Sparsely Vegetated Concave Surf		,		eutral Test (D5)
Field Observations:	-			
Surface Water Present? Yes	X No Depth (inch	nes): 18		
Water Table Present? Yes	No X Depth (inch			
Saturation Present? Yes	No X Depth (inch	nes):	Wetland Hydrology Pres	sent? Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gaug	e, monitoring well, aerial pho	otos, previous insp	ections), if available:	
Remarks:				
İ				

VEGETATION – Use scientific names of plants. Sampling Point: WB11 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 15 Acer rubrum Yes FAC **Number of Dominant Species** 2. Ulmus americana **FACW** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 30 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species 50 x 1 = Cornus alba 60 **FACW** Yes FACW species 110 x 2 = 220 2. Lonicera morrowii 15 No FACU FAC species x 3 = 75 Viburnum dentatum 10 No FAC **FACU** species 15 x 4 = 4. UPL species 0 x 5 = 5. Column Totals: 200 405 (A) (B) 6. Prevalence Index = B/A = 2.03 **Hydrophytic Vegetation Indicators:** 85 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Solidago gigantea 20 Yes **FACW** X 3 - Prevalence Index is ≤3.01 Glyceria striata 50 Yes OBL 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Phalaris arundinacea 15 No **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB11

Profile De	escription: (Describe	to the d	epth needed to docu	ıment th	e indicat	or or con	firm the absence	of indicators.)
Depth								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2	95	7.5YR 4/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
12-20	10YR 5/1	90	10YR 5/6	10	C	M	Loamy/Clayey	Prominent redox concentrations
				<u> </u>				
		oletion, R	M=Reduced Matrix, C	S=Cove	red or Co	ated San		cation: PL=Pore Lining, M=Matrix.
-	sol (A1)		Polyvaluo Rolow	, Surface	(S9) (I D	D D		ick (A10) (LRR K, L, MLRA 149B)
	, ,		Polyvalue Below	Surrace	(58) (LR	KK,		
	Epipedon (A2)		MLRA 149B)	(00) (rairie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surface					icky Peat or Peat (S3) (LRR K, L, R)
Hydro	ogen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR K	(, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Strati	fied Layers (A5)		Loamy Mucky M	lineral (F	1) (LRR I	(, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Deple	eted Below Dark Surface	ce (A11)	Loamy Gleyed N	/latrix (F2	2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sand	y Mucky Mineral (S1)		Redox Dark Sur					podic (TA6) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark S					ent Material (F21)
	y Redox (S5)		Redox Depressi	•	')			allow Dark Surface (TF12)
								· · · · · · · · · · · · · · · · · · ·
	ped Matrix (S6)		Marl (F10) (LRR	(K , L)			Other (E	xplain in Remarks)
Dark	Surface (S7)							
³ Indicator	s of hydrophytic vegeta	tion and	wetland hydrology mu	ıst be pre	esent, unl	ess distui	rbed or problemation	o.
Restrictiv	ve Layer (if observed)	:						
Type:								
Depth (inches):						Hydric Soil Pro	esent? Yes X No No
				Supplem	nent Versi	on 2.0 to	reflect the NRCS I	Field Indicators of Hydric Soils version
İ								

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/4/21						
Applicant/Owner: AES		State: NY Sampling Point: UB11					
Investigator(s): A Cimpi		Se	ection, Townsh	nip. Range:			
Landform (hillside, terrace, etc.):	Crest			ive, convex, non	ne): Convex	Slo	pe (%): 0-2
Subregion (LRR or MLRA): LRR I	Lat: 4	3.347005		Long: -78.6	613606	Datun	n: WGS 84
Soil Map Unit Name: Collamer silt	loam				NWI classif	ication:	
Are climatic / hydrologic conditions		this time of year'	2 Yes	X No	(If no, explain	-	
Are Vegetation, Soil			_	Are "Normal Circ	_``	,	X No
Are Vegetation , Soil	, or Hydrology	naturally prob	lematic?	(If needed, expla	ain any answers	s in Remarks.)	
SUMMARY OF FINDINGS	<u> </u>			int locations	s, transects,	, important fea	tures, etc.
Hydrophytic Vegetation Present?	Yes X	No X	Is the Sam	pled Area			,
Hydric Soil Present?	Yes	No X	within a W	•	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, optio	nal Wetland Site	e ID:		
HYDROLOGY							
Wetland Hydrology Indicators:				<u> </u>	Secondary Indic	cators (minimum of	two required)
Primary Indicators (minimum of c	one is required; check a	all that apply)				il Cracks (B6)	
Surface Water (A1)		Vater-Stained Lea	` ,	_		atterns (B10)	
High Water Table (A2)		Aquatic Fauna (B		_	Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B1		-		Water Table (C2)	
Water Marks (B1) Sediment Deposits (B2)		lydrogen Sulfide Oxidized Rhizospl		- Poots (C3)	Crayfish Bu	irrows (C8) Visible on Aerial Im	ogon/ (CO)
Drift Deposits (B3)		Presence of Redu		· · · · -		Stressed Plants (D	
Algal Mat or Crust (B4)		Recent Iron Redu	` ,	_		c Position (D2)	')
Iron Deposits (B5)		hin Muck Surface			Shallow Aq		
Inundation Visible on Aerial I		Other (Explain in I	, ,	-		raphic Relief (D4)	
Sparsely Vegetated Concave		(=	,	_	FAC-Neutra	• • • •	
Field Observations:				_			
	es No X	Depth (inches):					
Water Table Present?	es No X	Depth (inches):	,				
Saturation Present? Y	es No X	Depth (inches):		Wetland Hyd	rology Present	t? Yes	No X
(includes capillary fringe)		-	,				
Describe Recorded Data (stream	gauge, monitoring we	ll, aerial photos,	previous inspe	ections), if availa	able:		
Remarks:							
i							

VEGETATION – Use scientific names of plants. Sampling Point: UB11 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 15 Prunus americana UPL Yes **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 15 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = 0 Lonicera morrowii 40 **FACU** FACW species x 2 = Rhus typhina Yes UPL FAC species 0 x 3 = 3. **FACU** species 140 x 4 =60 UPL species x 5 = 300 4. 5. Column Totals: 200 860 (A) (B) 6. Prevalence Index = B/A = 4.30 **Hydrophytic Vegetation Indicators:** 85 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Dactylis glomerata 35 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Schedonorus pratensis 40 Yes **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 15 Taraxacum officinale No **FACU** 10 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Poa pratensis No 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB11** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 3/4 100 Loamy/Clayey 0-18 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: S	Somerset/Niagara	Sampling Date: 5/6/21
Applicant/Owner: AES		State:	NY Sampling Point: WB12
Investigator(s): A Cimpi	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (cond	cave, convex, none): Concave	Slope (%): 0-2
	at: 43.341892	Long: -78.613678	Datum: WGS 84
Soil Map Unit Name: Galen very fine sandy loam,		NWI classi	
Are climatic / hydrologic conditions on the site typical			n in Remarks.)
Are Vegetation, Soil, or Hydrology	•	Are "Normal Circumstances" pr	,
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site r	nap showing sampling p	oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No 0 Is the Sar	npled Area	
Hydric Soil Present? Yes X		•	No X
Wetland Hydrology Present? Yes X	No If yes, opti	ional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in Wetland within active cornfield. Not currently vegeta			
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	cators (minimum of two required)
Primary Indicators (minimum of one is required; che			oil Cracks (B6)
X Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livi		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4	<i></i>	Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		quitard (D3)
X Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutr	ral Test (D5)
Field Observations:			
Surface Water Present? Yes X No	Depth (inches): 3		
Water Table Present? Yes No _X	Depth (inches): 3 Depth (inches): Depth (inches):		
	Depth (inches):	Wetland Hydrology Presen	t? Yes X No
(includes capillary fringe)		1) 1 1 1 1	
Describe Recorded Data (stream gauge, monitoring	weii, aeriai pnotos, previous ins	pections), if available:	
Remarks:			

Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: (A) 2. **Total Number of Dominant** 4. Species Across All Strata: 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = ___ FACW species x 2 = ____ 1. 2. FAC species x 3 = ____ FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X_ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) No vegetation currently, assumed hydrophytes to be present later in the growing season.

VEGETATION – Use scientific names of plants.

Sampling Point:

SOIL Sampling Point: **WB12** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 90 7.5YR 4/4 10 С Loamy/Clayey Distinct redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No

Remarks:

Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21					5/6/21	
Applicant/Owner: AES		State: NY Sampling Point: UB					
Investigator(s): A Cimpi	Section, Township, Range:						
· · · · · · · · · · · · · · · · · · ·						pe (%): 0-2	
Subregion (LRR or MLRA): LRR		43.342058		Long: -7		•	n: WGS 84
Soil Map Unit Name: Claverac				Long/			1. 170004
					NWI classif	-	
Are climatic / hydrologic condition		-	-	X No	(If no, explain	,	
Are Vegetation, Soil	, or Hydrology	significantly of	disturbed?	Are "Normal Ci	rcumstances" pro	esent? Yes_	X No
Are Vegetation, Soil	, or Hydrology	naturally prol	olematic?	(If needed, exp	lain any answers	s in Remarks.)	
SUMMARY OF FINDINGS	5 – Attach site ma	ap showing sa	ampling po	int location	ıs, transects,	, important fea	tures, etc.
Hydrophytic Vegetation Present	? Yes	No X	Is the Sam	pled Area			
Hydric Soil Present?	Yes		within a W	-	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, option	nal Wetland Si			
Remarks: (Explain alternative p	procedures here or in a	a separate report.)					
HYDROLOGY							
Wetland Hydrology Indicators	 5:				Secondary Indic	cators (minimum of	two required)
Primary Indicators (minimum of	one is required; check	all that apply)			Surface So	il Cracks (B6)	
Surface Water (A1)		Water-Stained Le	eaves (B9)		Drainage Patterns (B10)		
High Water Table (A2)		Aquatic Fauna (B	13)		Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B	15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide			Crayfish Bu		
Sediment Deposits (B2)		Oxidized Rhizosp		-		Visible on Aerial Im	
Drift Deposits (B3)		Presence of Redu				Stressed Plants (D	1)
Algal Mat or Crust (B4)		Recent Iron Redu		Soils (C6)		c Position (D2)	
Iron Deposits (B5)		Thin Muck Surfac			Shallow Aquitard (D3)		
Inundation Visible on Aerial Sparsely Vegetated Concav		Other (Explain in	Remarks)		Microtopographic Relief (D4) FAC-Neutral Test (D5)		
	Pe Surface (Bo)				FAC-Neutra	ai rest (D5)	
Field Observations:	Van Na V	Donth (inches)					
Surface Water Present? Water Table Present?	Yes No X	Depth (inches):					
Saturation Present?	Yes No X Yes No X	Depth (inches):		Wetland Hy	drology Present	t? Yes	No Y
(includes capillary fringe)	110 X	Deptit (inches).		welland ny	urology Fresem	.: 163	NoX
Describe Recorded Data (stream	m gauge monitoring w	ell aerial nhotos	nrevious insp	ections) if avai	lahla:		
Describe Necorded Data (stream	in gauge, monitoring w	ren, aeriai priotos,	previous irisp	colloris), il avai	iabic.		
Remarks:							

VEGETATION – Use scientific names of plants. Sampling Point: UB12 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB12** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar	City/County: Somerset/Niagara	Sampling Date: 5/5/21
Applicant/Owner: AES	State:	NY Sampling Point: WB13
Investigator(s): A Cimpi	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3	40313 Long: -78.609851	Datum: WGS 84
Soil Map Unit Name: Madalin silt loam, loamy subsoil varia		
Are climatic / hydrologic conditions on the site typical for this		
Are Vegetation, Soil, or Hydrologys	· — · · ·	,
Are Vegetation , Soil , or Hydrologyr		in Remarks.)
SUMMARY OF FINDINGS – Attach site map sl		important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	
Hydric Soil Present? Yes X No		No
Wetland Hydrology Present? Yes X No		<u> </u>
Remarks: (Explain alternative procedures here or in a sepa	rate report.)	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	at apply) Surface Soil	l Cracks (B6)
X Surface Water (A1) X Wate	r-Stained Leaves (B9) X Drainage Pa	atterns (B10)
	tic Fauna (B13) X Moss Trim L	
		Water Table (C2)
	ogen Sulfide Odor (C1) Crayfish Bu	
	· · · · · · · · · · · · · · · · · · ·	/isible on Aerial Imagery (C9)
	<u> </u>	Stressed Plants (D1)
	nt Iron Reduction in Tilled Soils (C6) X Geomorphic	
	Muck Surface (C7) Shallow Aqu	, ,
	<u>—</u>	aphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutra	Il Test (D5)
Field Observations:		
Surface Water Present? Yes X No Dep	oth (inches): 3	
Water Table Present? Yes No X Dep Saturation Present? Yes No X Dep	oth (inches):	
Saturation Present? Yes No X Dep	oth (inches): Wetland Hydrology Present	? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if available:	
Remarks:		

VEGETATION – Use scientific names of plants. Sampling Point: **WB13** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 15 Acer rubrum No FAC **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. Ulmus americana 10 No **FACW** (A) Fraxinus pennsylvanica 30 Yes **FACW Total Number of Dominant** 45 4. Acer saccharinum Yes **FACW** Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 15 100 Ribes americanum **FACW** FACW species x 2 = 200 2. FAC species 15 x 3 = x 4 = **FACU** species 0 UPL species 0 x 5 = 115 (A) Column Totals: 245 (B) 6. Prevalence Index = B/A = 2.13 **Hydrophytic Vegetation Indicators:** 15 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: WB13

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

Profile Des Depth	scription: (Describe Matrix	e to the d	lepth needed to docu	ument the ox Feature		or or cor	nfirm the absence o	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 2/1	100					Mucky Loam/Clay	
4.20	10VP 2/2	05	10VP 4/4			M		Distinct raday concentrations
4-20	10YR 3/2	95	10YR 4/4	5	<u> </u>	<u>M</u>	Loamy/Clayey	Distinct redox concentrations
								_
¹ Type: C=0	Concentration, D=De	pletion, R	M=Reduced Matrix, C	CS=Cove	red or Co	ated San	d Grains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soi	I Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histose	ol (A1)		Polyvalue Belov	v Surface	(S8) (LR	RR,	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)					irie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surfa					ky Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		High Chroma Sa			-		Below Surface (S8) (LRR K, L)
	ed Layers (A5)		X Loamy Mucky M			(, L)		Surface (S9) (LRR K, L)
	ed Below Dark Surfa	ce (A11)	Loamy Gleyed N		2)			ganese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)		Depleted Matrix					Floodplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1)		X Redox Dark Sur					odic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4) Redox (S5)		Depleted Dark S Redox Depress		-7)			nt Material (F21) low Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRF					plain in Remarks)
	Surface (S7)			· 1 · , 上 /			Other (EX	plain in Romano)
	(0 7)							
³ Indicators	of hydrophytic veget	ation and	wetland hydrology mu	ust be pre	esent, unl	ess distu	rbed or problematic.	
Restrictive	Layer (if observed):						
Type:								
Depth (in	nches):						Hydric Soil Pres	sent? Yes X No No
Remarks:								
				Supplem	nent Versi	on 2.0 to	reflect the NRCS Fi	eld Indicators of Hydric Soils version
8.1 2017 E	rrata. (http://soils.usc	la.gov/use	∍/hydric)					

Project/Site: Somerset Solar		City/County: Somerset/Niagara Sampling Date: 5/5/21					5/5/21
Applicant/Owner: AES		State: NY Sampling Point: UB					Point: UB13
Investigator(s): A Cimpi		Section, Township, Range:					
	Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, r				ne): Convex	Slo	pe (%): 0-2
Subregion (LRR or MLRA): LRI	R L Lat:	43.340477		Long: -78.6	609881	Datur	m: WGS 84
Soil Map Unit Name: Niagara		nt slopes		_	NWI classif	rication:	
Are climatic / hydrologic condition			? Yes	X No	(If no, explain		
Are Vegetation, Soil _			-		cumstances" pr	,	X No
Are Vegetation, Soil _				(If needed, expl	ain any answers	s in Remarks.)	
SUMMARY OF FINDING				int location	s, transects,	, important fea	tures, etc.
Hydrophytic Vegetation Preser	nt? Yes	No X	Is the Sam	pled Area			,
Hydric Soil Present?	Yes		within a W	-	Yes	No X	
Wetland Hydrology Present?	Yes	No X	If yes, optic	nal Wetland Sit		_	
Remarks: (Explain alternative	procedures here of in a	a separate report.					
HYDROLOGY							
Wetland Hydrology Indicator	rs:				Secondary Indic	cators (minimum of	two required)
Primary Indicators (minimum o	of one is required; check	(all that apply)			Surface So	il Cracks (B6)	
Surface Water (A1)		Water-Stained Le	eaves (B9)		Drainage Patterns (B10)		
High Water Table (A2)		Aquatic Fauna (E	313)		Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B	15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide	Odor (C1)	-	Crayfish Bu	ırrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosp	heres on Livir	ng Roots (C3)	Saturation \	Visible on Aerial Im	agery (C9)
Drift Deposits (B3)		Presence of Red	uced Iron (C4)	_	Stunted or	Stressed Plants (D	1)
Algal Mat or Crust (B4)		Recent Iron Redu	uction in Tilled	Soils (C6)	Geomorphi	c Position (D2)	
Iron Deposits (B5)		Thin Muck Surface	ce (C7)	-	Shallow Aq	uitard (D3)	
Inundation Visible on Aeria		Other (Explain in	Remarks)	_	Microtopographic Relief (D4)		
Sparsely Vegetated Conca	ave Surface (B8)			<u>-</u>	FAC-Neutra	al Test (D5)	
Field Observations:							
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X	Depth (inches):					
Saturation Present?	Yes No X Yes No X	Depth (inches):		Wetland Hyd	Irology Present	t? Yes	No X
(includes capillary fringe)							
Describe Recorded Data (stream	am gauge, monitoring w	ell, aerial photos,	previous insp	ections), if avail	able:		
Remarks:							

VEGETATION – Use scientific names of plants. Sampling Point: **UB13** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 55 Acer saccharum Yes FACU **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. Fagus grandifolia Yes FACU (A) Betula papyrifera 10 No **FACU Total Number of Dominant** 4. Species Across All Strata: 4 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = x 3 = 2. FAC species 0 **FACU** species 120 x 4 = **UPL** species 25 x 5 = 125 Column Totals: 145 605 (A) (B) 6. Prevalence Index = B/A = 4.17 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 2 - Dominance Test is >50% Podophyllum peltatum 10 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Erythronium americanum 25 Yes UPL 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 Polygonatum biflorum No **FACU** 5 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Claytonia virginica No 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 45 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB13** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 3/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara	Sampling Date: 5/5/21			
Applicant/Owner: AES		State: NY Sampling Point: WB14			
Investigator(s): A Cimpi	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none)	: Concave Slope (%): 0-2			
Subregion (LRR or MLRA): LRR L Lat: 43.3		96165 Datum: WGS 84			
Soil Map Unit Name: Hamlin silt loam		NWI classification:			
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes X No ((If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrologys		mstances" present? Yes X No			
Are Vegetation , Soil , or Hydrology n		any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point locations,	transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No	0 Is the Sampled Area				
	within a Wetland?	Yes No X			
Wetland Hydrology Present? Yes X No		D:			
Remarks: (Explain alternative procedures here or in a sepa	rate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:	Se	econdary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all the		Surface Soil Cracks (B6)			
	-Stained Leaves (B9)	Drainage Patterns (B10)			
	ic Fauna (B13)	Moss Trim Lines (B16)			
	Deposits (B15)	Dry-Season Water Table (C2)			
	gen Sulfide Odor (C1)	Crayfish Burrows (C8)			
	zed Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
<u> </u>	nce of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
	nt Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
	Muck Surface (C7)	Shallow Aquitard (D3)			
	(Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	· · · · · · · · · · · · · · · · · · ·	FAC-Neutral Test (D5)			
Field Observations:		_			
	th (inches): 4				
<u> </u>	th (inches): 0				
·	th (inches): 0 Wetland Hydro	logy Present? Yes X No			
(includes capillary fringe)	· · · · · —	<u> </u>			
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections), if availabl	le:			
Remarks:					

Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = ___ FACW species x 2 = ____ 1. 2. FAC species x 3 = ____ FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X_ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Pond without vegetation. Vegetation expected to become vegetated with hydrophytes later in the growing season

VEGETATION – Use scientific names of plants.

Sampling Point:

SOIL Sampling Point: **WB14** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 2/1 0-16 100 Mucky Loam/Clay ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) X Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/5/21
Applicant/Owner: AES	State: NY Sampling Point: WB15
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.344	
Soil Map Unit Name: Hudson silt loam, 2 to 6 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	ue of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysigni	
Are Vegetation, Soil, or Hydrologynatu	rally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate	e report.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	Surface Soil Cracks (B6)
X Surface Water (A1) Water-St	tained Leaves (B9) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic F	Fauna (B13) Moss Trim Lines (B16)
X Saturation (A3)Marl Dep	posits (B15) Dry-Season Water Table (C2)
X Water Marks (B1) Hydroger	n 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	e of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Ir	ron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
	ck Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Ex	xplain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
	(inches):2
	(inches):3
	(inches): 0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	Labetes and loss loss of the North Labetes
Describe Recorded Data (stream gauge, monitoring well, aerial	i pnotos, previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: **WB15** Absolute Dominant Indicator 30) Tree Stratum (Plot size: % Cover **Dominance Test worksheet:** Species? Status Fraxinus pennsylvanica 100 **FACW** Yes **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: 4 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 75.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = Lonicera morrowii 40 FACU FACW species 200 x 2 = 400 2. FAC species 35 x 3 = **FACU** species 40 x 4 =UPL species 0 x 5 = Column Totals: 275 665 (A) (B) 6. Prevalence Index = B/A = 2.42 **Hydrophytic Vegetation Indicators:** 40 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 100 Yes X 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30) Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in Toxicodendron radicans height. Hydrophytic 3. Vegetation Present? Yes X _ No ____ 35 =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB15 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² (inches) Color (moist) Color (moist) Type¹ Texture Remarks

0-16	10YR 4/1	95	10YR 5/6	5	С	M	Loamy/Clayey	Promir	nent redox o	concentrations
										_
¹ Type: C=0	Concentration, D=De	oletion, RN	M=Reduced Matrix, C	S=Cove	red or Co	ated San				g, M=Matrix.
Hydric Soi	I Indicators:						Indicators for		-	
Histose	` '	-	Polyvalue Belov	v Surface	e (S8) (LR	RR,		. , ,		LRA 149B)
	Epipedon (A2)		MLRA 149B)	(00)				rairie Redox	, , ,	
	Histic (A3)	-	Thin Dark Surfa					-		(LRR K, L, R)
	gen Sulfide (A4)	-	High Chroma S			-		ie Below Su		
	ed Layers (A5)	(0.4.4)	Loamy Mucky N			K, L)		rk Surface (
	ed Below Dark Surface		Loamy Gleyed I		2)			-		(LRR K, L, R)
	Dark Surface (A12)	-	X Depleted Matrix		`					9) (MLRA 149B)
	Mucky Mineral (S1) Gleyed Matrix (S4)	-	Redox Dark Sur							4A, 145, 149B)
	Redox (S5)	•	Depleted Dark S Redox Depress					ent Materia allow Dark S		12)
	ed Matrix (S6)	-	Marl (F10) (LRF					Explain in Re		12)
	Surface (S7)	-	Mair (1 10) (LIN	· · · · · · ·					ziriarko)	
	, di i de (61)									
³ Indicators	of hydrophytic vegeta	ation and v	vetland hydrology m	ust be pre	esent, unl	ess distu	rbed or problemation	c.		
Restrictive	Layer (if observed)):								
Type:										
Depth (in	nches):						Hydric Soil Pr	esent?	Yes X	No
Remarks:							L			
	s revised from Northo			Supplen	nent Vers	ion 2.0 to	reflect the NRCS	Field Indicat	tors of Hydr	ic Soils version
8.1 2017 E	rrata. (http://soils.usd	a.gov/use/	hydric)							

Project/Site: Somerset Sola	r	City/County: Somerset/Niagara Sampling Date: 5/5/2					5/5/21
Applicant/Owner: AES						Point: UB14/15	
Investigator(s): A Cimpi		S	Section, Townsh	nip, Range:			
Landform (hillside, terrace, et	c.): Sideslope	Loc	cal relief (conca	ve, convex, none):	Convex	Slo	pe (%): 0-2
Subregion (LRR or MLRA): L	·	Lat: 43.343927	(11	Long: -78.592	844		m: WGS 84
• · · / <u>-</u>		d, 2 to 6 percent slope:	s	Long.	NWI classif		II. <u>VVCC 0</u> 4
Are climatic / hydrologic cond	itions on the site typ	ical for this time of year	r? Yes	X No (I	•	in Remarks.)	
Are Vegetation, Soil		_	_	Are "Normal Circum			X No
Are Vegetation , Soil	, or Hydrolog	naturally pro	blematic? (If needed, explain	any answers	in Remarks.)	
SUMMARY OF FINDIN				int locations, t	ransects,	important fea	tures, etc.
Hydrophytic Vegetation Pres	sent? Yes	No_X	Is the Samp	oled Area			-
Hydric Soil Present?	_	No X	within a We		Yes	No X	
Wetland Hydrology Present?	Yes Yes	No X	If yes, option	nal Wetland Site ID):		
HYDROLOGY							
Wetland Hydrology Indicat				Sec	•	ators (minimum of	two required)
Primary Indicators (minimum	of one is required;					il Cracks (B6)	
Surface Water (A1)		Water-Stained Le			•	atterns (B10)	
High Water Table (A2)		Aquatic Fauna (E			Moss Trim		
Saturation (A3)		Marl Deposits (B			•	Water Table (C2)	
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfide Oxidized Rhizosp		a Poots (C3)	Crayfish Bu	/isible on Aerial Im	nagery (CQ)
Drift Deposits (B3)		Presence of Red		g Roots (C3)	-	Stressed Plants (D	
Algal Mat or Crust (B4)		Recent Iron Red		Soils (C6)	-	c Position (D2)	')
Iron Deposits (B5)		Thin Muck Surface			Shallow Aq		
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in	` ,		•	raphic Relief (D4)	
Sparsely Vegetated Cor			,		FAC-Neutra		
Field Observations:					1		
Surface Water Present?	Yes No	X Depth (inches):	<u>:</u>				
Water Table Present?	Yes No	X Depth (inches):X Depth (inches):	:				
Saturation Present?	Yes No			Wetland Hydrolo	ogy Present	? Yes	No X
(includes capillary fringe)							
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos,	, previous inspe	ections), if available) :		
Remarks:							
1							

VEGETATION – Use scientific names of plants. Sampling Point: UB14/15 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 0 _ 2. FAC species x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)

Remarks:

Depth (inches):

Type:

Restrictive Layer (if observed):

Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Yes

No

Hydric Soil Present?

Project/Site: Somerset Solar	City/County: Somerset/Niaga	ara Sampling Date: 5/6/21
Applicant/Owner: AES		State: NY Sampling Point: WB16
Investigator(s): A Cimpi	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, r	none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L	Lat: 43.338275 Long:	-78.592865 Datum: WGS 84
Soil Map Unit Name: Wayland soils complex	c, 0 to 3 percent slopes, frequently flooded	NWI classification:
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydr	ologysignificantly disturbed? Are "Normal of	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydr	ologynaturally problematic? (If needed, ex	xplain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? You	es X No Is the Sampled Area	
Hydric Soil Present? You	es X No within a Wetland?	Yes X No
Wetland Hydrology Present? Ye	es X No If yes, optional Wetland	Site ID:
Remarks: (Explain alternative procedures he	ere or in a separate report.)	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1)	Water-Stained Leaves (B9)	X Drainage Patterns (B10)
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7		Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (E	<u>o</u>	A FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes X	No Depth (inches): 1	
Surface Water Present? Water Table Present? Yes X N		
Saturation Present? Yes X		lydrology Present? Yes X No
(includes capillary fringe)	Depart (mories).	165 <u>X</u> 165
	nitoring well, aerial photos, previous inspections), if av	railable:
Remarks:		

VEGETATION – Use scientific names of plants. Sampling Point: **WB16** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 2 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 65 1. FACW species x 2 = 130 2. FAC species 35 x 3 = **FACU** species 0 x 4 = UPL species 0 x 5 = Column Totals: 100 (A) 235 (B) 6. Prevalence Index = B/A = 2.35 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 65 Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ Solidago rugosa 25 Yes FAC 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10 Symphyotrichum lateriflorum No Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-12	10YR 4/1	95	10YR 5/4	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Distinct redox concentrations		
12-18	10YR 4/1	85	10YR 6/6	15	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations		
		<u> </u>		<u> </u>						
		_								
Hydric So	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :									
	sol (A1) Epipedon (A2)		Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)			
	Histic (A3)		Thin Dark Surfa	ce (S9) (I	LRR R, N	LRA 149	5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L)			
Hydro	ogen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR k	Κ, L)				
Strati	fied Layers (A5)		Loamy Mucky M	lineral (F	1) (LRR I	(, L)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)			
Deple	eted Below Dark Surface	ce (A11)	Loamy Gleyed N	∕latrix (F2	2)					
Thick Dark Surface (A12)			X Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)			
Sandy Mucky Mineral (S1)			Redox Dark Surface (F6)							
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)							
Sandy Redox (S5)			Redox Depressions (F8)				Very Shallow Dark Surface (TF12)			
Stripped Matrix (S6)			Marl (F10) (LRR K, L)				Other (Explain in Remarks)			
Dark	Surface (S7)									
³ Indicators	s of hydrophytic vegeta	ation and	wetland hydrology mu	ıst be pre	esent, unl	ess distur	bed or problemation	C.		
	/e Layer (if observed)						·			
Type:										
Depth (inches):						Hydric Soil Pro	esent? Yes X No No		
				Supplem	nent Versi	on 2.0 to	reflect the NRCS I	Field Indicators of Hydric Soils version		
l										

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21
Applicant/Owner: AES	State: NY Sampling Point: WB16
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.3396	
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignif	
Are Vegetation , Soil , or Hydrology natur	
	ving sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate	report.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	
<u> </u>	ained Leaves (B9) X Drainage Patterns (B10)
	Fauna (B13) Moss Trim Lines (B16)
l 	osits (B15) Dry-Season Water Table (C2)
	Crayfish Burrows (C8)
	Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	s of Reduced Iron (C4) Stunted or Stressed Plants (D1) Stunted or Stressed Plants (D2)
	on Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
	k Surface (C7) Shallow Aquitard (D3)
	(plain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	technology and
	inches): 1
	inches): 2 Wetland Hydrology Present? Yes X No
Saturation Present? Yes X No Depth (i (includes capillary fringe)	inches): 0 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. **WB16** Sampling Point: Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover **Dominance Test worksheet:** Species? Status 75 **FACW** Fraxinus pennsylvanica Yes **Number of Dominant Species** 2. Acer rubrum 15 No FAC That Are OBL, FACW, or FAC: (A) Ulmus americana 10 No **FACW Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species 15 x 1 = 215 Lindera benzoin 45 Yes **FACW** FACW species x 2 = 430 Ribes americanum 30 Yes **FACW** FAC species 15 x 3 = 3. **FACU** species 0 x 4 = UPL species 0 x 5 = 4. 5. Column Totals: 245 (A) 490 (B) 6. Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 75 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 20 Yes **FACW** X 3 - Prevalence Index is ≤3.01 Solidago gigantea 35 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Glyceria striata 15 Yes Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 70 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes X_ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB16** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 3/1 95 10YR 5/6 5 С Loamy/Clayey Prominent redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version

8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21
Applicant/Owner: AES	State: NY Sampling Point: WB17
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.33913	Long: -78.596211 Datum: WGS 84
Soil Map Unit Name: Madalin silt loam, 0 to 3 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrologysignifical	
Are Vegetation , Soil , or Hydrology naturally	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<u> </u>
	d Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faun	
Saturation (A3)Marl Deposits	
	ulfide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck St	
l 	in in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	<u> </u>
Surface Water Present? Yes X No Depth (inch	nes):1
Water Table Present? Yes No X Depth (inch	nes):
Saturation Present? Yes No X Depth (inch	nes): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
Nemarks.	

VEGETATION – Use scientific names of plants. Sampling Point: WB17 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) 0 x 1 = OBL species 0 1. FACW species x 2 = 2. FAC species 25 x 3 = 75 x 4 = **FACU** species 0 UPL species 0 x 5 = Column Totals: 25 (A) (B) 6. Prevalence Index = B/A = 3.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Rumex crispus 25 X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 25 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB17** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/2 95 10YR 5/6 5 С Loamy/Clayey Prominent redox concentrations 0-16 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar		City/County: Somerset/Niagara				Sampling Date: 5/6/21		
Applicant/Owner: AES					State:	NY Sampling	Point: UB16/17	
Investigator(s): A Cimpi		Sec	ction, Township,	, Range:				
Landform (hillside, terrace, etc	:.): Sideslope	Local	I relief (concave,	, convex, none): Convex	Slo	pe (%): 0-2	
Subregion (LRR or MLRA): LR	′ 	13 330758	() ()	Long: -78.59	94793	•	n: WGS 84	
Soil Map Unit Name: Waylan			uently flooded		NWI classif		i. <u>woo o</u>	
Are climatic / hydrologic condit				(No		in Remarks.)		
Are Vegetation, Soil _	,,	•		"Normal Circu			X No	
Are Vegetation , Soil				needed, explair	n any answers			
SUMMARY OF FINDING	<u> </u>			t locations,	transects,	, important fea	tures, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No X	Is the Sample	ed Area				
Hydric Soil Present?	Yes		within a Wetla		Yes	NoX		
Wetland Hydrology Present?	Yes	No X	If yes, optional	Wetland Site				
Remarks: (Explain alternative	e procedures here or in a	a separate report.)						
HYDROLOGY								
Wetland Hydrology Indicato	ors:			<u>Se</u>	econdary Indic	cators (minimum of	two required)	
Primary Indicators (minimum	of one is required; check				Surface Soil Cracks (B6)			
Surface Water (A1)	<u>—</u>	Water-Stained Lea			_	age Patterns (B10)		
High Water Table (A2)	<u>—</u>	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) Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)			Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Iron Deposits (B5)		Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)			Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aer	ial Imageny (B7)	Other (Explain in Remarks)			Microtopographic Relief (D4)			
Sparsely Vegetated Cond		Curier (Explain in Nemarks)			FAC-Neutral Test (D5)			
Field Observations:	2446 6411406 (20)					1 1001 (20)		
Surface Water Present?	Ves No X	Depth (inches):						
Water Table Present?	Yes No X Yes No X	Depth (inches):						
Saturation Present?	Yes No X			Netland Hydro	logy Present	t? Yes	No X	
(includes capillary fringe)				•	0,			
Describe Recorded Data (stre	eam gauge, monitoring v	vell, aerial photos, p	revious inspecti	ions), if availab	le:			
Remarks:								

VEGETATION – Use scientific names of plants. Sampling Point: UB16/17 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 0 _ 2. FAC species x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 Loamy/Clayey 0-16 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21
Applicant/Owner: AES	State: NY Sampling Point: WB
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-
Subregion (LRR or MLRA): LRR L Lat: 43.347682	2 Long: -78.600831 Datum: WGS 84
Soil Map Unit Name: Rhinebeck silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrologysignific	
Are Vegetation , Soil , or Hydrology natura	
 	ing sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate r	report.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two require
Primary Indicators (minimum of one is required; check all that ap	
	ined Leaves (B9) X Drainage Patterns (B10)
High Water Table (A2) Aquatic Fa	
Saturation (A3) Marl Depo	
	Sulfide Odor (C1) Crayfish Burrows (C8)
	Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iro	n Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Exp	olain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (in	nches): 1
Water Table Present? Yes No X Depth (in	nches):
Surface Water Present? Yes X No Depth (in Water Table Present? Yes No X Depth (in Saturation Present? Yes No X Depth (in	nches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspections), if available:
Remarks:	
Remarks.	

VEGETATION – Use scientific names of plants. Sampling Point: **WB18** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = Cornus alba 40 Yes **FACW** FACW species 130 x 2 = 260 1. 2. Cornus amomum 20 Yes **FACW** FAC species 55 x 3 = Lonicera tatarica 10 No **FACU FACU** species 10 x 4 = 25 **FACW** UPL species 0 x 5 = 4. Alnus incana Yes 5. Column Totals: 195 465 (A) (B) 6. Prevalence Index = B/A = 2.38 **Hydrophytic Vegetation Indicators:** 95 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 10 No **FACW** X 3 - Prevalence Index is ≤3.0¹ 2. Solidago gigantea 20 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Cinna arundinacea 15 No **FACW** 55 FAC Problematic Hydrophytic Vegetation¹ (Explain) Yes 4. Equisetum arvense 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB18

Profile De	escription: (Describe	to the de	epth needed to docu	ment th	e indicat	or or con	firm the absence	of indicators.)	
Depth	Depth Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-9	10YR 4/2	95	7.5YR 4/4	5	<u>C</u>	PL	Loamy/Clayey	Distinct redox concentrations	
9-18	10YR 4/2	95	7.5YR 4/4	5		M	Loamy/Clayey	Distinct redox concentrations	
		_			_				
				<u> </u>					
Hydric So	=Concentration, D=Depoil Indicators: sol (A1)	oletion, RI	Polyvalue Below				Indicators fo 2 cm Mu	cation: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : lck (A10) (LRR K, L, MLRA 149B)	
	Epipedon (A2) Histic (A3)		MLRA 149B) Thin Dark Surfa	ce (S9) (LRR R, N	LRA 149		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)	
Hydro	ogen Sulfide (A4)		High Chroma Sa					e Below Surface (S8) (LRR K, L)	
Strati	fied Layers (A5)		Loamy Mucky M	lineral (F	1) (LRR I	(, L)	Thin Dar	k Surface (S9) (LRR K, L)	
Deple	eted Below Dark Surface	ce (A11)	Loamy Gleyed N	/latrix (F	2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)	
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmon	nt Floodplain Soils (F19) (MLRA 149B)	
	y Mucky Mineral (S1)		Redox Dark Sur				Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)	
Sand	y Gleyed Matrix (S4)		Depleted Dark S	Surface (F7)			ent Material (F21)	
Sand	y Redox (S5)		Redox Depressi	ons (F8)				allow Dark Surface (TF12)	
Stripp	oed Matrix (S6)		Marl (F10) (LRR	K , L)			Other (Explain in Remarks)		
Dark	Surface (S7)								
³ Indicators	s of hydrophytic vegeta	ation and	wetland hydrology mu	ist be pre	esent, unl	ess distui	rbed or problematio	> .	
Restrictiv	e Layer (if observed)):							
Type:									
Depth (inches):						Hydric Soil Pre	esent? Yes X No No	
				Supplen	nent Versi	on 2.0 to	reflect the NRCS F	Field Indicators of Hydric Soils version	

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/6/21				
Applicant/Owner: AES		State:	NY Sampling Point: UB18		
Investigator(s): A Cimpi	Section, To	ownship, Range:			
Landform (hillside, terrace, etc.): Sideslope		concave, convex, none): Convex	Slope (%): 0-2		
Subregion (LRR or MLRA): LRR L	Lat: 43.346018	Long: -78.604316			
Phinohook cilt loam (
Soil Map Unit Name:		NWI class			
Are climatic / hydrologic conditions on the sit	e typical for this time of year?	Yes X No (If no, explai	n in Remarks.)		
Are Vegetation, Soil, or Hyd	Irologysignificantly disturbed	? Are "Normal Circumstances" p	oresent? Yes X No		
Are Vegetation, Soil, or Hyd	Irologynaturally problematic?	(If needed, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach	າ site map showing sampling	point locations, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	res No X Is the	Sampled Area			
_ , , , ,		a Wetland? Yes	No X		
l		optional Wetland Site ID:			
Remarks: (Explain alternative procedures h	nere or in a separate report.)	<u></u>			
	, ,				
HADBOLOCA					
HYDROLOGY					
Wetland Hydrology Indicators:		·	licators (minimum of two required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		oil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (B9) Drainage I	Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim	Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Seaso	on Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C	I) Crayfish B	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	r Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in T	"illed Soils (C6) Geomorph	nic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow A	quitard (D3)		
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks) Microtopo	graphic Relief (D4)		
Sparsely Vegetated Concave Surface (ral Test (D5)		
Field Observations:					
	No. Y. Donth (inches):				
Water Table Present?	No X Depth (inches):	-			
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches): No X Depth (inches):	— Wetler d Hudrele au Bress	nto Van Na V		
	No X Depth (inches).	Wetland Hydrology Preser	nt? Yes No X		
(includes capillary fringe)		in a section of the section is a section of the sec			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous	inspections), if available:			
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: **UB18** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 0 x 4 = UPL species 100 x 5 = 500 Column Totals: 100 500 (A) (B) 6. Prevalence Index = B/A = 5.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: _____ 5 2 - Dominance Test is >50% 1. Zea mays 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB18** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 5/3 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar	City/County: Somerset/N	liagara	Sampling Date: 5/10/21
Applicant/Owner: AES		State:	NY Sampling Point: WB19
Investigator(s): A Cimpi	Section, Township, Rang	e:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, conve	ex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43	.346794 Long	: -78.606938	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 0 to 2 percent sle		NWI classif	fication:
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes X No	o (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrologys		nal Circumstances" pr	
Are Vegetation , Soil , or Hydrology n		d, explain any answers	
SUMMARY OF FINDINGS – Attach site map sh		ations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	a	
	within a Wetland?	Yes X	No
Wetland Hydrology Present? Yes X No	If yes, optional Wetla		<u> </u>
Remarks: (Explain alternative procedures here or in a sepa	rate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	at apply)	Surface So	il Cracks (B6)
 -	r-Stained Leaves (B9)	X Drainage P	
	tic Fauna (B13)		Lines (B16)
	Deposits (B15)		n Water Table (C2)
 -	ogen Sulfide Odor (C1)		urrows (C8)
<u> </u>	zed Rhizospheres on Living Roots (ence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Visible on Aerial Imagery (C9) Stressed Plants (D1)
	nt Iron Reduction in Tilled Soils (C6		ic Position (D2)
<u> </u>	Muck Surface (C7)	Shallow Aq	
	(Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	(=	X FAC-Neutra	
Field Observations:			
Surface Water Present? Yes X No Dep	th (inches):1		
Water Table Present? Yes X No Dep	th (inches): 6		
	th (inches): 0 Wetlan	d Hydrology Presen	t? Yes X No
(includes capillary fringe)	delahatan masilanah kanasatianah k	f	
Describe Recorded Data (stream gauge, monitoring well, as	riai pnotos, previous inspections), i	f available:	
Remarks:			
Nomano.			

VEGETATION – Use scientific names of plants. Sampling Point: WB19 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 15 Acer negundo No FAC **Number of Dominant Species** OBL That Are OBL, FACW, or FAC: 2. Salix nigra Yes (A) Populus deltoides 30 Yes FAC **Total Number of Dominant** 4. Species Across All Strata: 4 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 90 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species 45 x 1 = 15 45 Cornus amomum **FACW** FACW species x 2 = 90 2. FAC species 45 x 3 = 135 **FACU** species 0 x 4 = UPL species 0 x 5 = 5. Column Totals: 135 270 (A) (B) 6. Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 15 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 30 **FACW** X 3 - Prevalence Index is ≤3.01 Yes 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 30 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB19** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 0-20 10YR 4/1 90 10YR 5/6 10 С Loamy/Clayey Prominent redox concentrations M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/10/21				
Applicant/Owner: AES		State:	NY Sampling Point: UB19		
Investigator(s): A Cimpi	Section, Township, Rang	e:			
Landform (hillside, terrace, etc.): Crest	Local relief (concave, conve		Slope (%): 0-2		
Subregion (LRR or MLRA): LRR L Lat: 43.3	•	-78.607015	Datum: WGS 84		
Soil Map Unit Name: Collamer silt loam, 0 to 2 percent slop	Eorig	•			
		NWI classif			
Are climatic / hydrologic conditions on the site typical for this		` ' '	•		
Are Vegetation, Soil, or Hydrology		nal Circumstances" pre	esent? Yes X No		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	d, explain any answers	s in Remarks.)		
SUMMARY OF FINDINGS – Attach site map s	howing sampling point loca	ations, transects,	important features, etc.		
	1.4.0.1.4				
Hydrophytic Vegetation Present? Yes X N			No. V		
	o X within a Wetland? o X If yes, optional Wetla	Yes	No <u>X</u>		
		and Site ID.			
Remarks: (Explain alternative procedures here or in a sep-	arate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check all the	nat apply)	Surface Soi	l Cracks (B6)		
Surface Water (A1) Wate	er-Stained Leaves (B9)	Drainage P	atterns (B10)		
High Water Table (A2) Aqua	atic Fauna (B13)	Moss Trim I	Lines (B16)		
Saturation (A3) Marl	Deposits (B15)	Dry-Seasor	Water Table (C2)		
Water Marks (B1) Hydr	rogen Sulfide Odor (C1)	Crayfish Bu	rrows (C8)		
Sediment Deposits (B2) Oxid	lized Rhizospheres on Living Roots ((C3) Saturation \	/isible on Aerial Imagery (C9)		
Drift Deposits (B3)	ence of Reduced Iron (C4)	Stunted or S	Stressed Plants (D1)		
Algal Mat or Crust (B4) Rece	ent Iron Reduction in Tilled Soils (C6	Geomorphic	c Position (D2)		
Iron Deposits (B5) Thin	Muck Surface (C7)	Shallow Aq	uitard (D3)		
Inundation Visible on Aerial Imagery (B7) Othe	er (Explain in Remarks)	Microtopog	raphic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		FAC-Neutra	al Test (D5)		
Field Observations:					
Surface Water Present? Yes No _X _ De	pth (inches):				
Water Table Present? Yes No X De	pth (inches):				
Water Table Present? Yes No X De Saturation Present? Yes No X De	pth (inches): Wetlar	d Hydrology Present	? Yes No_X		
(includes capillary fringe)	, <u> </u>				
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections),	f available:			
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: **UB19** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status Ailanthus altissima 10 UPL Yes **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 10 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) x 1 = OBL species ____ 10 0 Lonicera morrowii FACU FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 110 x 4 = UPL species 10 x 5 = 5. Column Totals: 120 490 (A) (B) 6. Prevalence Index = B/A = 4.08 **Hydrophytic Vegetation Indicators:** 10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Schedonorus pratensis 35 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Poa pratensis 25 Yes **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Galium aparine 20 Yes **FACU** 15 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Anthoxanthum odoratum No 4. 5 No _ 5. Taraxacum officinale **FACU** ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB19** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 0-2 10YR 4/4 100 Loamy/Clayey ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock/gravel Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

US Army Corps of Engineers

Project/Site: Somerset Solar	City/County: Somer	rset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: WB20
Investigator(s): A Cimpi	Section, Township,	Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave,	convex, none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.34	9137	Long: -78.590678	Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes		NWI classifi	ication:
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes X		
Are Vegetation, Soil, or Hydrologysign		"Normal Circumstances" pre	,
Are Vegetation, Soil, or Hydrologynati	urally problematic? (If no	eeded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point	locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled	d Area	
Hydric Soil Present? Yes X No	within a Wetla		No
Wetland Hydrology Present? Yes X No	If yes, optional	Wetland Site ID:	-
Remarks: (Explain alternative procedures here or in a separate	e report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)		il Cracks (B6)
<u> </u>	tained Leaves (B9)	X Drainage Pa	atterns (B10)
	Fauna (B13)	X Moss Trim I	
	posits (B15)		n Water Table (C2)
l 	en Sulfide Odor (C1)	Crayfish Bu	
<u> </u>	d Rhizospheres on Living R	· · · ——	Visible on Aerial Imagery (C9)
	e of Reduced Iron (C4)		Stressed Plants (D1)
	Iron Reduction in Tilled Soil		, ,
-	ck Surface (C7)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7) Other (E Sparsely Vegetated Concave Surface (B8)	explain in Remarks)	X FAC-Neutra	raphic Relief (D4)
		A FAC-Neutra	11 Test (D5)
Field Observations:	('a ala a a)		
Surface Water Present? Yes No X Depth	(inches):		
Water Table Present? Yes No X Depth Saturation Present? Yes No X Depth	(inches):	etland Hydrology Present	? Yes X No
(includes capillary fringe)	(IIICHES).	elianu nyurology Fresent	i? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitoring well, aeria	l photos, previous inspectic	ons), if available:	
2000.00 Tool 2012 Quick (Orlown) gauge, monitoring non, acres	. p		
Remarks:			-

VEGETATION – Use scientific names of plants. Sampling Point: **WB20** Absolute Dominant Indicator 30 Tree Stratum (Plot size: % Cover **Dominance Test worksheet:** Species? Status 15 **FACW** Fraxinus pennsylvanica Yes **Number of Dominant Species** 2. Acer negundo 5 No FAC That Are OBL, FACW, or FAC: (A) Populus deltoides 25 Yes FAC **Total Number of Dominant FACW** 4. Acer saccharinum 15 Yes Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 60 =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 30 **FACW** 155 Cornus amomum FACW species x 2 = 310 2. FAC species x 3 = **FACU** species 0 x 4 = UPL species 0 x 5 = 5. Column Totals: 190 (A) 415 (B) 6. Prevalence Index = B/A = 2.18 **Hydrophytic Vegetation Indicators:** 30 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phalaris arundinacea 95 **FACW** X 3 - Prevalence Index is ≤3.01 Yes Equisetum arvense FAC 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB20

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	10YR 4/1	95	7.5YR 4/4	5	С	PL	Loamy/Clayey	Prominent redox concentrations	<u> </u>
8-20	10YR 4/1	95	10YR 5/4	5	С	М	Loamy/Clayey	Distinct redox concentrations	
¹ Type: C=	=Concentration, D=Dep	oletion, R	M=Reduced Matrix, C	S=Cove	ered or Co	ated San	d Grains. ² Lo	cation: PL=Pore Lining, M=Matrix.	
Hydric So	oil Indicators:							or Problematic Hydric Soils ³ :	
Histo	sol (A1)		Polyvalue Below	Surface	e (S8) (LR	RR,	2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)	
Histic	Epipedon (A2)		MLRA 149B)				Coast P	rairie Redox (A16) (LRR K, L, R)	
Black	Histic (A3)		Thin Dark Surface	ce (S9) (LRR R, M	LRA 149	9B)5 cm Μυ	icky Peat or Peat (S3) (LRR K, L, R)	
Hydro	ogen Sulfide (A4)		High Chroma Sa	ınds (S1	1) (LRR K	(, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Strati	fied Layers (A5)		Loamy Mucky M	ineral (F	1) (LRR k	(, L)	Thin Dark Surface (S9) (LRR K, L)		
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed M	latrix (F	2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmor	nt Floodplain Soils (F19) (MLRA 149	B)
Sand	y Mucky Mineral (S1)		Redox Dark Sur		5)			podic (TA6) (MLRA 144A, 145, 149E	
	y Gleyed Matrix (S4)		Depleted Dark S				Red Parent Material (F21)		
	y Redox (S5)		Redox Depression					allow Dark Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR K, L)				Other (Explain in Remarks)		
	Surface (S7)							Aprail III Homaine)	
	Carraco (Cr)								
³ Indicators	s of hydrophytic vegeta	tion and	wetland hydrology mu	st be pr	esent, unle	ess distu	rbed or problemation) .	
Restrictiv	ve Layer (if observed)	:							
Type:									
Depth (inches):						Hydric Soil Pr	esent? Yes X No	_
Remarks:									
			•	Suppler	nent Versi	on 2.0 to	reflect the NRCS I	Field Indicators of Hydric Soils versio	n
8.1 2017 1	Errata. (http://soils.usda	a.gov/use	/nyaric)						

Project/Site: Somerset Solar	City/County: So	merset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: UB20
Investigator(s): A Cimpi	Section, Townsh	nip. Range:	
Landform (hillside, terrace, etc.): Crest	Local relief (conca	ve, convex, none): Convex	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat:	43.349124	Long: -78.590841	Datum: WGS 84
Soil Map Unit Name: Rhinebeck silt loam, 0 to 2 percentage	ent slones	NWI classif	ication:
Are climatic / hydrologic conditions on the site typical for			in Remarks.)
Are Vegetation, Soil, or Hydrology	-	Are "Normal Circumstances" pr	,
Are Vegetation , Soil , or Hydrology		(If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site ma		int locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sam	pled Area	
Hydric Soil Present? Yes	No X within a We		NoX
Wetland Hydrology Present? Yes		nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a	separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface So	il Cracks (B6)
1 	Water-Stained Leaves (B9)		atterns (B10)
	Aquatic Fauna (B13)		Lines (B16)
l 	Marl Deposits (B15)		n Water Table (C2)
	Hydrogen Sulfide Odor (C1)		urrows (C8)
I 	Oxidized Rhizospheres on Livin	· · · —	Visible on Aerial Imagery (C9)
I ——	Presence of Reduced Iron (C4)		Stressed Plants (D1)
I ——	Recent Iron Reduction in Tilled	· · · —	c Position (D2)
	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aq	raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Julei (Explain in Remarks)		al Test (D5)
		IAC-Neulla	1 Test (D3)
Field Observations:	Donth (inches)		
Surface Water Present? Yes No X Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Present	t? Yes No_X_
(includes capillary fringe)	Dopur (mones).	Welland Hydrology Fresch	105 NOX
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspe	ections), if available:	
		,	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: **UB20** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 33.3% Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 20 1. FACW species x 2 = 2. FAC species 5 x 3 = **FACU** species 75 x 4 = UPL species 0 x 5 = Column Totals: 100 355 (A) (B) 6. Prevalence Index = B/A = 3.55 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover 2 - Dominance Test is >50% Herb Stratum (Plot size: Schedonorus pratensis 50 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Phalaris arundinacea 20 Yes **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 25 Plantago lanceolata Yes **FACU** 5 FAC Problematic Hydrophytic Vegetation¹ (Explain) Equisetum arvense No 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB20** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Type¹ Loc² (inches) % Texture Remarks 0-5 10YR 4/4 100 Loamy/Clayey 5-18 10YR 5/6 100 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State: NY Sampling Point: WB21
Investigator(s): A Cimpi	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none)	: Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L	_at: 43.355118 Long:78.585	5107 Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 perc		NWI classification:
Are climatic / hydrologic conditions on the site typical		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		mstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling point locations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes	K No Is the Sampled Area	
Hydric Soil Present? Yes	No within a Wetland?	Yes X No
Wetland Hydrology Present? Yes	No If yes, optional Wetland Site II	D:
HYDROLOGY		
Wetland Hydrology Indicators:		condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; ch		_ Surface Soil Cracks (B6)
X Surface Water (A1)		Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	_ Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) 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)		Geomorphic Position (D2)
Iron Deposits (B5)		Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches): 3	
Water Table Present? Yes No	C Depth (inches):	
Saturation Present? Yes No	Depth (inches): 3	logy Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections), if available	e:
Remarks:		

VEGETATION – Use scientific names of plants. Sampling Point: **WB21** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 100 1. FACW species x 2 = 200 2. FAC species 0 x 3 = **FACU** species x 4 = UPL species 0 x 5 = Column Totals: 100 200 (A) (B) 6. Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB21** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² Texture (inches) % Type¹ Remarks 10YR 2/1 100 0-4 Mucky Loam/Clay ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) X Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: rock/gravel Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: So	omerset/Niagara	Sampling Date: 5/11/21
Applicant/Owner: AES		State:	NY Sampling Point: UB21
Investigator(s): A Cimpi	Section, Towns	hip, Range:	
Landform (hillside, terrace, etc.): Sideslope	•	ave, convex, none): Convex	Slope (%): 3-8
Subregion (LRR or MLRA): LRR L La	t: 43.355119	Long: -78.584966	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 0 to 2 perce	nt slopes	NWI classif	fication:
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	X No (If no, explain	n in Remarks.)
Are Vegetation, Soil, or Hydrology _	· •	Are "Normal Circumstances" pr	
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling po	oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sam	pled Area	
Hydric Soil Present? Yes		etland? Yes	No X
Wetland Hydrology Present? Yes	No X If yes, option	onal Wetland Site ID:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)		oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	_Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livir	· · · · · · · · · · · · · · · · · · ·	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	· · · —	ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	X Shallow Aq	• • •
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		raphic Relief (D4) al Test (D5)
		FAC-Neutr	ai rest (D5)
Field Observations:	Donth (in the s)		
Surface Water Present? Yes No X Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches): Depth (inches):	Wetland Hydrology Present	t? Yes No_X_
(includes capillary fringe)		Welland Hydrology Fresen	1: 1es NO_X
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous insp	ections), if available:	
33.	.,	,, a a a a a	
Remarks:			
T. C. I. C.			

VEGETATION – Use scientific names of plants. Sampling Point: UB21 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 33.3% Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 25 1. FACW species x 2 = 2. FAC species 0 x 3 = **FACU** species 75 x 4 =UPL species 0 x 5 = Column Totals: 100 350 (A) (B) 6. Prevalence Index = B/A = 3.50 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 2 - Dominance Test is >50% Phalaris arundinacea 25 Yes **FACW** 3 - Prevalence Index is ≤3.01 2. Dactylis glomerata 30 Yes **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 35 Schedonorus pratensis Yes **FACU** 10 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Lotus corniculatus No 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB21** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 100 Loamy/Clayey 0-5 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: rock/gravel Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/12/21
Applicant/Owner: AES	State: NY Sampling Point: WB22
Investigator(s): A Cimpi	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43.35218	Long: -78.591565 Datum: WGS 84
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignifical	
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<u> </u>
X Surface Water (A1) X Water-Staine	
High Water Table (A2) ——Aquatic Faun ——Mart Deposits	
Saturation (A3)Marl Deposits X Water Marks (B1) Hydrogen Su	s (B15) Dry-Season Water Table (C2) Ilfide Odor (C1) Crayfish Burrows (C8)
	zospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Recent Hoff P	
	in in Remarks) Microtopographic Relief (D4)
<u> </u>	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inch	nes): 1
Water Table Present? Yes No X Depth (inch	es):
Saturation Present? Yes No X Depth (inch	es): Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	atos provious inspections) if available:
Describe Recorded Data (Stream gauge, monitoring well, aerial pric	nos, previous inspections), ii avaliable.
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: WB22 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 15 Acer negundo Yes FAC **Number of Dominant Species** 2. Populus deltoides Yes FAC That Are OBL, FACW, or FAC: (A) Fraxinus pennsylvanica 10 Yes **FACW Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 50 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species 40 x 1 = 45 100 Cornus amomum **FACW** FACW species x 2 = 200 2. FAC species x 3 = **FACU** species 0 x 4 = UPL species 0 x 5 = 5. Column Totals: 180 (A) 360 (B) 6. Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 45 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Glyceria striata 40 Yes OBL X 3 - Prevalence Index is ≤3.01 Impatiens capensis **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB22** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/1 90 7.5YR 4/4 10 С Loamy/Clayey Prominent redox concentrations 0-18 M ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version

8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	Cit	y/County: Somerset/Niag	jara	Sampling Date: 5/12/21
Applicant/Owner: AES			State:	NY Sampling Point: WB23
Investigator(s): A Cimpi	Se	ction, Township, Range:		
Landform (hillside, terrace, etc.): Depre	ession Local	relief (concave, convex,	none): Concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L	Lat: 43.352312	Long:	-78.592085	Datum: WGS 84
	m, 0 to 2 percent slopes		NWI classif	
Are climatic / hydrologic conditions on the	e site typical for this time of year?	Yes X No	(If no, explain	in Remarks.)
Are Vegetation , Soil , or			Circumstances" pr	
Are Vegetation , Soil , or			explain any answers	
SUMMARY OF FINDINGS – Att	<u> </u>		ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes X No	within a Wetland?	Yes_X	No
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland		
Remarks: (Explain alternative procedure	res here or in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is r	equired; check all that apply)		Surface So	il Cracks (B6)
X Surface Water (A1)	Water-Stained Lea	` ,		Patterns (B10)
X High Water Table (A2)	X Aquatic Fauna (B1			Lines (B16)
X Saturation (A3) Water Marks (B1)	Marl Deposits (B15 X Hydrogen Sulfide (n Water Table (C2) urrows (C8)
Sediment Deposits (B2)		eres on Living Roots (C3		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduc	= :	· 	Stressed Plants (D1)
Algal Mat or Crust (B4)		etion in Tilled Soils (C6)		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	e (C7)	Shallow Aq	uitard (D3)
Inundation Visible on Aerial Imager	y (B7) Other (Explain in F	Remarks)	Microtopog	raphic Relief (D4)
Sparsely Vegetated Concave Surfa	ice (B8)		FAC-Neutra	al Test (D5)
Field Observations:				
Surface Water Present? Yes X				
	No Depth (inches): _ Depth (inches): _		lydrology Presen	t? Yes X No
(includes capillary fringe)	No Deptit (inches)	wetland r	Tydrology Fresen	tr res NO
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, p	revious inspections), if a	vailable:	
Remarks:				
1				

Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = ___ FACW species x 2 = ____ 1. 2. FAC species x 3 = ____ FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30 Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X_ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) No vegetation identified at time of survey but expected as hydrology and hydric soil conditions exist.

VEGETATION – Use scientific names of plants.

Sampling Point:

WB23

SOIL Sampling Point: **WB23** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) % Color (moist) % Loc² Type¹ Texture Remarks ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric) Soil not reviewed due to the presence of H2S.

Project/Site: Somerset Sola	r		С	ity/County: So	omerset/Niagar	a	Samp	oling Date:	5/12/21	I
Applicant/Owner: AES						State:	NY	Sampling	Point:	UB22/23
Investigator(s): A Cimpi Section, Township, Range:										
Landform (hillside, terrace, et	c.): Crest		,		ave, convex, no	ne): Convex		Slo	pe (%):	0-2
Subregion (LRR or MLRA): L	RR L	Lat		,	Long: -7				n: WGS	_
Soil Map Unit Name: Niagara silt loam, 0 to 2 percent slopes NWI classification:										
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)										
Are Vegetation, Soil		• •	•	-		rcumstances" p			X No	0
						lain any answer			<u> </u>	
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Pres	ent? Y	'es	No X	Is the Sam	npled Area					
Hydric Soil Present?		es	No X	within a W	-	Yes	No	x		
Wetland Hydrology Present?	' Y	'es	No X	If yes, option	onal Wetland Si					
Remarks: (Explain alternative procedures here or in a separate report.)										
L HYDROLOGY										
Wetland Hydrology Indicat	ors:					Secondary Indi	cators (ı	minimum of	two req	uired)
Primary Indicators (minimum of one is required; cl			eck all that apply)			Surface Soil Cracks (B6)				
Surface Water (A1)			Water-Stained Leaves (B9)			Drainage Patterns (B10)				
High Water Table (A2)			Aquatic Fauna (B	Moss Trim Lines (B16)						
Saturation (A3)			Marl Deposits (B1	Dry-Season Water Table (C2)						
Water Marks (B1)			_Hydrogen Sulfide	Crayfish Burrows (C8)						
Sediment Deposits (B2)			Oxidized Rhizospheres on Living Roots (C3)			Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Presence of Redu	Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)			Recent Iron Redu	Geomorphic Position (D2)						
Iron Deposits (B5)			Thin Muck Surface (C7)			Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)			Other (Explain in Remarks)			Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)										
Field Observations:										
Surface Water Present?	Yes	No X	Depth (inches):							
Water Table Present?	Yes							v		
Saturation Present? (includes capillary fringe)	Yes	No <u>X</u>	Depth (inches):		wetiand Hy	drology Presen	it?	Yes	No_	-
Describe Recorded Data (str	eam gauge, mo	onitoring v	well, aerial photos.	previous insp	ections), if avai	lable:				
(J		,	,						
Remarks:										

VEGETATION – Use scientific names of plants. Sampling Point: UB22 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = 10 Cornus racemosa 40 FAC FACW species x 2 = 2. FAC species x 3 = **FACU** species 90 x 4 =UPL species 0 x 5 = 0 5. Column Totals: 140 500 (A) (B) 6. Prevalence Index = B/A = 3.57 **Hydrophytic Vegetation Indicators:** 40 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 2 - Dominance Test is >50% Solidago canadensis 90 Yes **FACU** 3 - Prevalence Index is ≤3.01 Impatiens capensis **FACW** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30) Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB22** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 100 Loamy/Clayey 0-18 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/12/21							
Applicant/Owner: AES	State: NY Sampling Point: WB24							
Investigator(s): A Cimpi	Section, Township, Range:							
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2							
Subregion (LRR or MLRA): LRR L Lat: 43.350022	Long:78.596839 Datum: WGS 84							
Soil Map Unit Name: Hamlin silt loam	NWI classification:							
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)							
Are Vegetation , Soil , or Hydrology significan	· · · · · · · · · · · · · · · · · · ·							
Are Vegetation , Soil , or Hydrology naturally								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes X No	within a Wetland? Yes X No							
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate rep	port.)							
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply	y) Surface Soil Cracks (B6)							
X Surface Water (A1) X Water-Staine	ed Leaves (B9) X Drainage Patterns (B10)							
X High Water Table (A2) X Aquatic Faun								
X Saturation (A3)Marl Deposits								
X Water Marks (B1) X Outlinead Reports (B2)								
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Processes of Reduced Iron (C4) Stunted or Strossed Plants (D4)								
X Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)								
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)								
Inundation Visible on Aerial Imagery (B7) Other (Explain								
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes X No Depth (inch	nes):18							
Water Table Present? Yes X No Depth (inch	nes): 0							
Saturation Present? Yes X No Depth (inch	es):0 Wetland Hydrology Present? Yes X No							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:							
Remarks:								

VEGETATION – Use scientific names of plants. Sampling Point: WB24 Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover **Dominance Test worksheet:** Species? Status Fraxinus pennsylvanica 45 **FACW** Yes **Number of Dominant Species** 2. Populus deltoides FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 65 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = Acer negundo 25 85 FAC FACW species x 2 = 170 2. FAC species x 3 = 135 **FACU** species 0 x 4 =**UPL** species 0 x 5 = Column Totals: 170 (A) 345 (B) 6. Prevalence Index = B/A = 2.03 **Hydrophytic Vegetation Indicators:** 25 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Lysimachia nummularia 40 Yes **FACW** X 3 - Prevalence Index is ≤3.01 Scirpus atrovirens 25 Yes OBL 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Acorus calamus 15 No OBL Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 80 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB24** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/1 90 7.5YR 4/6 10 С Loamy/Clayey Prominent redox concentrations 0-16 Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) X Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Sc	omerset/Niagara	Sampling Date: 5/12/21
Applicant/Owner: AES		State:	NY Sampling Point: UB24
Investigator(s): A Cimpi	Section, Towns	hip. Range:	
Landform (hillside, terrace, etc.): Sideslope		ave, convex, none): Convex	Slope (%): 0-2
	at: 43.350122	Long: -78.596515	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 2 to 6 per		NWI classif	
Are climatic / hydrologic conditions on the site typical			in Remarks.)
Are Vegetation, Soil, or Hydrology	-	Are "Normal Circumstances" pr	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site n			
Hydrophytic Vegetation Present? Yes	No X Is the Sam	unled Area	
Hydric Soil Present? Yes			NoX
Wetland Hydrology Present? Yes		onal Wetland Site ID:	_ · ·
Remarks: (Explain alternative procedures here or in			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface So	il Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage P	atterns (B10)
High Water Table (A2)			
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livir	- · · · · · · · · · · · · · · · · · · ·	Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	· · · —	ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aq	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		raphic Relief (D4) al Test (D5)
		rAC-Neuti	ai Test (D3)
Field Observations: Surface Water Present? Yes No X	Donth (inches)		
Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches): Depth (inches):	Wetland Hydrology Presen	t? Yes No_X_
(includes capillary fringe)			<u>~</u>
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous insp	ections), if available:	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: UB24 Absolute Dominant Indicator 30) Tree Stratum (Plot size: % Cover **Dominance Test worksheet:** Species? Status Fraxinus americana 55 FACU Yes **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 0.0% Prevalence Index worksheet: 55 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = Rosa multiflora 30 **FACU** 0 FACW species x 2 = Lonicera morrowii 25 Yes FACU FAC species 0 x 3 = 3. **FACU** species 210 x 4 = **UPL** species 0 x 5 = 4. 5. Column Totals: 210 840 (A) (B) 6. Prevalence Index = B/A = 4.00 **Hydrophytic Vegetation Indicators:** 55 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Poa pratensis 35 Yes **FACU** 3 - Prevalence Index is ≤3.01 Solidago canadensis **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB24** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/4 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar City/County: Somerset/Niagara Sampling Date: 5/12/21		
Applicant/Owner: AES State: NY Sampling Point: WB29		
Investigator(s): A Cimpi Section, Township, Range:		
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-2		
Subregion (LRR or MLRA): LRR L Lat: 43.350134 Long: -78.600169 Datum: WGS 84		
Soil Map Unit Name: NWI classification:		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? YesX _ No		
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area		
Hydric Soil Present? Yes X No within a Wetland? Yes X No		
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID:		
Remarks: (Explain alternative procedures here or in a separate report.)		
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 Leaves (B9) X Drainage Patterns (B10)		
X High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Mark Deposite (B15) Mark Deposite (B15)		
X Saturation (A3)		
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)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5)		
Field Observations:		
Surface Water Present? Yes X No Depth (inches): 4		
Water Table Present? Yes X No Depth (inches): 0		
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No		
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		
Nemarks.		

VEGETATION – Use scientific names of plants. Sampling Point: **WB25** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = Salix discolor 35 **FACW** 75 FACW species x 2 = 150 2. FAC species 0 x 3 = **FACU** species x 4 = UPL species 0 x 5 = Column Totals: 120 195 (A) (B) 6. Prevalence Index = B/A = 1.63 **Hydrophytic Vegetation Indicators:** 35 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis 40 Yes **FACW** X 3 - Prevalence Index is ≤3.01 Typha angustifolia 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 85 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WB25

Profile De	escription: (Describe	to the de	epth needed to docu	ment th	e indicat	or or con	firm the absence	of indicators.)
Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 4/2	95	7.5YR 4/4	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Distinct redox concentrations
5-18	10YR 5/4	90	7.5YR 4/4	10	<u>C</u>	M	Loamy/Clayey	Faint redox concentrations
		_						
Hydric So	=Concentration, D=De bil Indicators: sol (A1)	oletion, RI	Polyvalue Below				Indicators fo 2 cm Mu	cation: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : lck (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2) Histic (A3)		MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)					
Hydro	ogen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR F	(, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Strati	fied Layers (A5)		Loamy Mucky M	lineral (F	1) (LRR I	(, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Deple	eted Below Dark Surfa	ce (A11)	Loamy Gleyed N	∕latrix (F2	2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmon	nt Floodplain Soils (F19) (MLRA 149B)
	y Mucky Mineral (S1)		Redox Dark Sur				Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark Surface (F7) Red Parent Material (F21) Paday Depleted Dark Surface (F8) Vary Shallow Dark Surface (TE12)					
	y Redox (S5)		Redox Depressions (F8) Very Shallow Dark Surface (TF12)				· · · · · · · · · · · · · · · · · · ·	
	oed Matrix (S6)		Marl (F10) (LRR K, L) Other (Explain in Remarks)				xplain in Remarks)	
Dark Surface (S7)								
³ Indicators	s of hydrophytic vegeta	ation and	wetland hydrology mu	ıst be pre	esent, unl	ess distur	bed or problemation	c.
Restrictiv	ve Layer (if observed)):						
Type:								
Depth (inches):						Hydric Soil Pre	esent? Yes X No No
				Supplem	nent Versi	on 2.0 to	reflect the NRCS F	Field Indicators of Hydric Soils version

Project/Site: Somerset Solar	City/County: Somerset/Niagara Sampling Date: 5/12/21	
Applicant/Owner: AES	State: NY Sampling Point: WB25	
Investigator(s): A Cimpi	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 0-2	
Subregion (LRR or MLRA): LRR L Lat:	Long: Datum: WGS 84	
Soil Map Unit Name:	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explain in Remarks.)	
	antly disturbed? Are "Normal Circumstances" present? Yes X No	
Are Vegetation , Soil , or Hydrology natural		
<u> </u>	ng sampling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No	
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate re	eport.)	
L HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that app		
X Surface Water (A1) X Water-Stair	ned Leaves (B9) X Drainage Patterns (B10)	
X High Water Table (A2) Aquatic Fau	una (B13) X Moss Trim Lines (B16)	
X Saturation (A3) Marl Depos		
	Sulfide Odor (C1) Crayfish Burrows (C8)	
Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Saturation Visible on Aerial Images		
		
l — — — — — — — — — — — — — — — — — — —	Reduction in Tilled Soils (C6) — Geomorphic Position (D2) Surface (C7) Shallow Aquitard (D3)	
	ain in Remarks) Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)	
Field Observations:	<u> </u>	
Surface Water Present? Yes X No Depth (inc	ches): 1	
Water Table Present? Yes X No Depth (inc	ches): 5	
Saturation Present? Yes X No Depth (inc	ches): 0 Wetland Hydrology Present? Yes X No	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:	
Remarks:		

VEGETATION – Use scientific names of plants. Sampling Point: **WB25** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status Populus deltoides 25 Yes FAC **Number of Dominant Species** 75 Fraxinus pennsylvanica **FACW** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 100 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: ____ 15) OBL species 25 x 1 = 1. FACW species 120 x 2 = 240 2. FAC species x 3 = **FACU** species 0 x 4 = UPL species 0 x 5 = Column Totals: 205 445 (A) (B) 6. Prevalence Index = B/A = 2.17 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Onoclea sensibilis Yes **FACW** X 3 - Prevalence Index is ≤3.01 Glyceria striata 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 70 =Total Cover of size, and woody plants less than 3.28 ft tall. 30) Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in Toxicodendron radicans height. Hydrophytic 3. Vegetation Present? Yes X _ No ____ 35 =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB25** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 4/1 90 7.5YR 4/4 10 С Loamy/Clayey Prominent redox concentrations 0-16 Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Sor	nerset/Niagara	Sampling Date: 5/12/21
Applicant/Owner: AES		State:	NY Sampling Point: UB25
Investigator(s): A Cimpi	Section, Townsh	ip, Range:	
Landform (hillside, terrace, etc.): Sideslope		ve, convex, none): Convex	Slope (%): 0-2
	43.349772	Long:78 601797	Datum: WGS 84
Soil Map Unit Name: Rhinebeck silt loam, 0 to 2 percent		NWI classif	
Are climatic / hydrologic conditions on the site typical for		X No (If no, explain	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" pre	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map		If needed, explain any answers	
			- Important reatures, etc.
Hydrophytic Vegetation Present? Yes	No X Is the Samp		
Hydric Soil Present? Yes	No X within a We		No <u>X</u>
Wetland Hydrology Present? Yes	No X If yes, option	nal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a s	separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check a	ıll that apply)	Surface Soi	il Cracks (B6)
Surface Water (A1)	Vater-Stained Leaves (B9)	Drainage P	atterns (B10)
High Water Table (A2)	quatic Fauna (B13)	Moss Trim I	Lines (B16)
Saturation (A3)	larl Deposits (B15)	Dry-Seasor	n Water Table (C2)
Water Marks (B1)	lydrogen Sulfide Odor (C1)	Crayfish Bu	ırrows (C8)
Sediment Deposits (B2)	xidized Rhizospheres on Living	Roots (C3) Saturation	Visible on Aerial Imagery (C9)
	resence of Reduced Iron (C4)		Stressed Plants (D1)
<u> </u>	ecent Iron Reduction in Tilled S	Soils (C6) Geomorphic	c Position (D2)
	hin Muck Surface (C7)	Shallow Aq	, ,
 -	other (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	ther (Explain in Remarks)	FAC-Neutra	• • • •
		IAO Neutre	11 (03)
Field Observations:	5 4 6 1)		
Surface Water Present? Yes No X	Depth (inches):		
Water Table Present? Yes No _X	Depth (inches):		
	Depth (inches):	Wetland Hydrology Present	t? Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring wel	l, aerial photos, previous inspe	ctions), if available:	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: UB25 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 0 1. FACW species x 2 = x 3 = 2. FAC species 0 **FACU** species 100 x 4 = **UPL** species 0 x 5 = Column Totals: 100 400 (A) (B) 6. Prevalence Index = B/A = 4.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Schedonorus pratensis 35 Yes **FACU** 3 - Prevalence Index is ≤3.01 2. Dactylis glomerata 20 Yes **FACU** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 15 Phleum pratense No **FACU** 30 **FACU** Problematic Hydrophytic Vegetation¹ (Explain) Poa pratensis Yes 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. 30 Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB25** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Type¹ Loc² Texture (inches) % Remarks 10YR 5/3 100 Loamy/Clayey 0-12 12-20 10YR 5/6 100 Loamy/Clayey ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Nic	agara Sampling Date: 5/13/21
Applicant/Owner: AES		State: NY Sampling Point: WB26
Investigator(s): A Cimpi	Section, Township, Range	:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, conve	x, none): Concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43	.348881 Long:	-78.594922 Datum: WGS 84
Soil Map Unit Name: Hamlin silt loam		NWI classification:
Are climatic / hydrologic conditions on the site typical for th	is time of year? Yes X No	
Are Vegetation, Soil, or Hydrology		al Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	- '	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	_	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area	
	No within a Wetland?	Yes X No
Wetland Hydrology Present? Yes X	No If yes, optional Wetlar	
Remarks: (Explain alternative procedures here or in a se	parate report.)	
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)
 -	ter-Stained Leaves (B9)	X Drainage Patterns (B10)
	uatic Fauna (B13)	X Moss Trim Lines (B16)
X Saturation (A3)		
	=	
	dized Rhizospheres on Living Roots (Cesence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
I 	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
I 	n Muck Surface (C7)	Shallow Aquitard (D3)
l 	ner (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	ior (Explain in Nomano)	X FAC-Neutral Test (D5)
Field Observations:		
	epth (inches): 2	
	epth (inches): 0	
		Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if	available:
Remarks:		
Remarks.		

VEGETATION – Use scientific names of plants. Sampling Point: WB26 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 45 Acer rubrum Yes FAC **Number of Dominant Species** Fraxinus pennsylvanica **FACW** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: 75 =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 1. FACW species 65 x 2 = 130 2. FAC species 45 x 3 = 135 **FACU** species 0 x 4 = UPL species 0 x 5 = Column Totals: 110 265 (A) (B) 6. Prevalence Index = B/A = 2.41 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis 35 X 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 35 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X _ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **WB26** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 3/1 95 7.5YR 4/4 5 С Loamy/Clayey Prominent redox concentrations 0-16 Μ ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

Project/Site: Somerset Solar	City/County: Somerset/Nia	gara S	ampling Date: 5/13/21
Applicant/Owner: AES		State: N	Sampling Point: UB26
Investigator(s): A Cimpi	Section, Township, Range:		
Landform (hillside, terrace, etc.): Topslope	Local relief (concave, convex	, none): Convex	Slope (%): 0-2
Subregion (LRR or MLRA): LRR L Lat: 43	· · · · · · · · · · · · · · · · · · ·	-78.594913	Datum: WGS 84
Soil Map Unit Name: Collamer silt loam, 2 to 6 percent sl		NWI classificati	· · · · · · · · · · · · · · · · · · ·
Are climatic / hydrologic conditions on the site typical for th	•		
Are Vegetation, Soil, or Hydrology		l Circumstances" preser	
Are Vegetation , Soil , or Hydrology		explain any answers in	
SUMMARY OF FINDINGS – Attach site map	_	,	,
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area		
	No X within a Wetland?	Yes	No X
Wetland Hydrology Present? Yes 1	No X If yes, optional Wetlan		
Remarks: (Explain alternative procedures here or in a ser Roadside upland	parate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all		Surface Soil Cr	, ,
l — —	tter-Stained Leaves (B9)	Drainage Patte	
	uatic Fauna (B13)	Moss Trim Line	` '
1 	rl Deposits (B15)	Dry-Season Wa	
	drogen Sulfide Odor (C1)	Crayfish Burrov	
	idized Rhizospheres on Living Roots (C	· ·	ble on Aerial Imagery (C9)
	esence of Reduced Iron (C4)		ssed Plants (D1)
	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Po	` '
	n Muck Surface (C7)	Shallow Aquita	
I 	ner (Explain in Remarks)	Microtopograph	
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Te	est (D5)
Field Observations:			
	epth (inches):		
	epth (inches): Wetland	Hydrology Present?	Yes No _X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well,	porial photos, provious inapostions) if	woileble:	
Describe Recorded Data (Stream gauge, monitoring well,	aeriai priotos, previous irispections), ii a	avaliabie.	
Remarks:			

VEGETATION – Use scientific names of plants. Sampling Point: **UB26** Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: (B) 5. Percent of Dominant Species (A/B) 6. That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = 100 1. FACW species x 2 = 200 2. FAC species 0 x 3 = **FACU** species x 4 = UPL species 0 x 5 = Column Totals: 100 200 (A) (B) 6. Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 3 - Prevalence Index is ≤3.01 2. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 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 100 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X_ No ____ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **UB26** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 10YR 3/4 100 Loamy/Clayey 0-16 ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 8.1 2017 Errata. (http://soils.usda.gov/use/hydric)

STREAM ID SB1	STREAM NAME NA		
LAT LONG	DATE 05/03/2021		
PROJEC Somerset Solar	CLIENT AES		
INVESTIGATORS AC			
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓		

Water Present No water, stream bed dry Stream bed moist Standing water FLOW CHARACTERISTICS Water Present No water, stream bed dry Stream bed moist Standing water Flowing water Velocity Water Present Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity Velocity Velocity Clear Slightly turbic	ized o dium High devere ft/100 ft)
Top of Bank Width: 2.0 ft Top of Bank Height: LB 8.0 in RB 8.0 in Water Depth: 1.00 in Water Width: 2.0 ft High Water Mark: 2.0 ft Flow Direction: North Water Present No water, stream bed dry Stream bed moist Standing water FLOW CHARACTERISTICS Top of Bank Width: 2.0 ft Top of Bank Width: 2.0 ft Top of Bank Width: 2.0 ft Artificial, Modified or Channelia Yes ✓ No Dam Present Sinuosity ✓ Low Med Sinuosity ✓ Low Med Gradient ✓ Flat Moderate So (0.5/100 ft (2 ft/100 ft) (10 ft) Proportion of Reach Represent Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity ✓ Clear Slightly turbid Velocity	ized o dium High Severe ft/100 ft) ated by Stream
Top of Bank Height: LB 8.0 in RB 8.0 in Yes ✓ No Water Depth: 1.00 in Water Width: 2.0 ft High Water Mark: 2.0 ft Flow Direction: North Water Present No water, stream bed dry Stream bed moist Standing water ✓ Flowing water ✓ Flowing water ✓ Velocity Top of Bank Height: Artificial, Modified or Channelia Yes ✓ No Sinuosity ✓ Low Med Sinuosity ✓ Flat (0.5/100 ft (2 ft/100 ft) (10 ft) Proportion of Reach Represent Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity ✓ Clear Slightly turbid	ized o dium High Severe ft/100 ft) ated by Stream
CHANNEL FEATURES LB 8.0 in RB 8.0 inYes	odium High Severe ft/100 ft) sted by Stream
CHANNEL FEATURES LB 8.0 in RB 8.0 in Dam Present Yes ✓ No Water Depth: 1.00 in Water Width: 2.0 ft High Water Mark: 2.0 ft Sinuosity ✓ Low Med Flow Direction: North Gradient ✓ Flat Moderate (0.5/100 ft (2 ft/100 ft) (10 ft) Water Present No water, stream bed dry Stream bed moist Standing water ✓ Flowing water FLOW CHARACTERISTICS LB 8.0 in RB 8.0 in Dam Present	odium High Severe ft/100 ft) tted by Stream
CHANNEL FEATURES Water Depth: 1.00 in Water Width: 2.0 ft Dam PresentYes _✓ Not water Width: 2.0 ft Binuosity ✓ LowMed Flow Direction: North Gradient ✓ FlatModerateSt (0.5/100 ft) (2 ft/100 ft) (10 ft) Water PresentNo water, stream bed dryStream bed moistStream bed moistStanding water✓ Flowing water Proportion of Reach Represent Morphology Types FLOW CHARACTERISTICS Turbidity Velocity Slightly turbid	dium High severe ft/100 ft) sted by Stream
Water Width: 2.0 ft High Water Mark: 2.0 ft Flow Direction: North Water Present No water, stream bed dry Stream bed moist Standing water Flow CHARACTERISTICS Water Width: 2.0 ft High Water Mark: 2.0 ft Sinuosity Low Mec Gradient	dium High severe ft/100 ft) sted by Stream
High Water Mark: 2.0 ft Flow Direction: North Gradient FlatModerateSt (0.5/100 ft (2 ft/100 ft) (10 ft) Water PresentNo water, stream bed dryStream bed moist _Standing waterFlowing water FLOW CHARACTERISTICS High Water Mark: 2.0 ft Gradient FlatModerateSt (0.5/100 ft (2 ft/100 ft) (10 ft) Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity Velocity Velocity Flowing water Velocity Sinuosity ✓ LowMedicate FlowModerateSt (0.5/100 ft (2 ft/100 ft) (10 ft) Froportion of Reach Represent Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity ✓ ClearSlightly turbid	Severe ft/100 ft) ited by Stream
FLOW CHARACTERISTICS Flow Direction: North Gradient Flow Direction: North Gradient Flow Gradient Flow Gradient Flow Gradient Flow Gradient Flow Gradient Flow Gradient Flow Gradient Flow Gradient From Moderate So (0.5/100 ft (2 ft/100 ft) (10 ft) Morphology Types Riffle 10 % Run 50 Pool 40 % Flowing water ted by Stream	
Water Present No water, stream bed dry Stream bed moist Standing water FLOW CHARACTERISTICS Water Present No water, stream bed dry Stream bed moist Standing water Flowing water Velocity Water Present No water, stream bed dry Morphology Types Riffle 10 % Run 50 Pool 40 % Turbidity Velocity Velocity Clear Sightly turbic	tt/100 ft) ted by Stream
Water Present	tt/100 ft) ted by Stream
No water, stream bed dry Morphology Types	·
FLOW CHARACTERISTICS Stream bed moist Riffle 10 % Run 50 Standing water Pool 40 % Turbidity Velocity Velocity Riffle 10 % Run 50 Pool 40 % Turbidity Velocity Velocity Velocity	%
FLOW CHARACTERISTICS Standing water Flowing water Flowing water Turbidity Velocity Velocity Velocity Velocity	/0
FLOW CHARACTERISTICS Flowing water Turbidity Velocity Velocity Velocity Velocity	
Turbidity Velocity ✓ ClearSlightly turbic	
Table Markette Choque Stopped	idTurbid
Fast Moderate	
INORGANIC SUBSTRATE COMPONENTS ORGANIC SUBSTRATE COMPONENTS	NENTS
(should add up to 100%) (does not necessarily add up to	
	% Composition in
Type Sampling Reach Type Characteristic	Sampling Area
Bedrock Sticks, wood, coarse Detritus Stocks, wood, coarse	4.5
Boulder > 256 mm (10") plant materials (CPOM)	15
Cobble 64-256 mm (2.5"-10") Muck-Mud black, very fine organic (FPOM)	
olater 2011mm (et 210)	
377	
Silt 0.004-0.06 mm 30 Marl grey, shell fragments Clay < 0.004 mm (slick)	
Predominant Surrounding Landuse Indicate the dominant type (Ch	ack one)
✓ Forest Commercial ✓ Trees Shrubs	ieck one)
Field/Pasture Industrial Grasses Herbaceou	us
WATERSHED — Agricultural — Residential Floodplain Width	
WATERSHED Floodplain Width FEATURES — Other: Floodplain Width ✓ Wide > 30ft Moderate	15-30ft
Canopy Cover Narrow <16ft	
	Na
Partly openPartly shaded	INO
Partly openPartly shadedOpen Wetland PresentYes	
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4 Indicate the dominant type and record the dominant species presentRooted emergentRooted floating	-
Partly open — Partly shaded — Open Wetland Present ✓ Yes — Indicate the dominant type and record the dominant species present	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4 Indicate the dominant type and record the dominant species presentRooted emergentRooted floating	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4Yes Indicate the dominant type and record the dominant species presentRooted emergentRooted floating	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4 Indicate the dominant type and record the dominant species presentRooted emergentRooted submergentRooted floatingAttached algae NA	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4 Indicate the dominant type and record the dominant species presentRooted emergentRooted submergentRooted floatingAttached algae NA MACROINVERTEBRATES OR OTHER	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4 Indicate the dominant type and record the dominant species presentRooted emergentRooted submergentRooted floatingTendering algaeAttached algae NA MACROINVERTEBRATES OR OTHER WILDLIFE	-
Partly openPartly shadedOpen Wetland PresentYes ShadedOpen Wetland ID wB4Yes Indicate the dominant type and record the dominant species presentRooted emergentRooted submergentRooted floatingAttached algae NA MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND	-
Partly openPartly shadedOpen	-

STREAM ID SB2	STREAM NAME Fish Creek
LAT LONG	DATE 05/05/2021
PROJEC Somerset Solar	CLIENT AES
INVESTIGATORS AC	
FLOW REGIME Perennial ✓ Intermittent— Ephemeral—	WATER TYPE TNW RPW ✓ NRPW

Perenniai -	<u> </u>	nt <u> — Epnem</u>	eral INW —	RPW -	NRPW —	
1						
			Measurements		Stream Erosion	I I a a cons
		Top of Bank Width: 12.0 ft			None✓ Moderate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized
		LB <u>4.0</u>	ft RB <u>4.0</u>	<u>ft</u>	Yes _ <u>✓</u> No	
CHANNEL FE	ATURES	Water Dep	th: <u>4.00 in</u>			
CHANNELLE	ATORES	Water Widt	h: 8.0 ft		Dam PresentYes	<u>∕</u> No
			Mark: 10.0 ft		Sinuosity Low	Medium High
		J	tion: North		<u> </u>	_ •
		Flow Direct	uon: <u>Norui</u>		Gradient ✓ Flat Moderate _	Sovoro
					(0.5/100 ft (2 ft/100 ft)	
		Water Pres	sent		Proportion of Reach Repre	esented by Stream
			r, stream bed dry		Morphology Types	
			ped moist		Riffle 10 % Run 40 Pool 50 %	%
FLOW		Standing	-		Pool 50 %	
CHARACTER	ISTICS	<u></u> ✓ Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	
			Moderate		OpaqueStained	
<u></u> ✓ Slow				Other		
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)		_	RGANIC SUBSTRATE COM loes not necessarily add u			
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock					sticks, wood, coarse	
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	15
Cobble 64-256 mm (2.5"-10")			Muck-Mud	black, very fine organic	0.0	
Gravel	2-64 mm	ı (0.1"-2.5")	5	iviuck-iviud	(FPOM)	20
Sand	0.06-2n	0.06-2mm (gritty) 10				
Silt	0.004-0	0.06 mm	30	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick) 20		1		
		Predominant Surrounding Lar			Indicate the dominant type	(Check one)
		✓ Forest	Commer		✓ Trees — Shrub	
		Field/Page Agricult			Grasses Herba	iceous
WATERSHED		Other:	Resident	uai	Floodplain Width	
FEATURES		_ 00101.				rate 15-30ft
		Canopy Co			Narrow <16ft	
		Partly o		aded	Wetland Present ✓ Yes	No
		✓ Shaded	Open		Wetland ID Many	
					lominant species present	
AQUATIC VE	GETATION		· —	Rooted subme	_	tingFree floating
		— Floating	g algae	Attached algae	9	
		Fish, frogs				
MACROINVER OR OTHER	RTEBRATES					
WILDLIFE OBSERVED/C	THED					
OBSERVATIO						
NOTES						
		1				

STREAM ID SB3	STREAM NAME Fish Creek
LAT LONG	DATE 05/12/2021
PROJEC Somerset Solar	CLIENT AES
INVESTIGATORS AC	
FLOW REGIME Perennial ✓ Intermittent— Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —

		Estimate N	/leasurements		Stream Erosion		
		Top of Bank Width: 12.0 ft		None✓ Moderate	Heavy		
		Top of Bank Height:			Artificial, Modified or Char	nolizod	
		LB 4.0	ft RB_4.0	f+	Yes ✓ No	menzea	
CHANNEL FE	ATURES		th: 4.00 in				
CHANNEL FE	ATURES	Water Widt			Dam PresentYes	<u>/_</u> No	
			Mark: 10.0 ft		Sinuosity Low	Medium High	
		J	tion: North				
		1 low Bileo	1011. <u>11011.</u>		Gradient ✓ Flat Moderate _	Severe	
					(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	esented by Stream	
			r, stream bed dry bed moist		Morphology Types Riffle 10 % Run 40	%	
		Standing			Pool 50 %		
FLOW CHARACTER	ISTICS	✓ Flowing	water		Touch table.		
		Velocity			Turbidity ✓ ClearSlightly	turbidTurbid	
			Moderate		OpaqueStained		
		✓ Slow			Other		
INOR		STRATE CO	MPONENTS 0%)	_	RGANIC SUBSTRATE COM does not necessarily add u	-	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Dotrituo	sticks, wood, coarse		
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	15	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	20	
Gravel	2-64 mm	(0.1"-2.5")	5	Widok Wida	(FPOM)	20	
Sand		nm (gritty)	10				
Silt		0.06 mm	30	Marl	grey, shell fragments		
Clay	< 0.004 i	mm (slick)	20				
		Predomina ✓ Forest	ant Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub		
			astureIndustrial		GrassesHerba		
WATERCHER		Agricultural Residential Other: Canopy Cover		tial	Floodplain Width		
WATERSHED FEATURES					✓ Wide > 30ft Mode	rate 15-30ft	
					Narrow <16ft		
		Partly o		aded	aded Wetland Present ∠YesNo		
		<u>✓</u> Shaded Open			Wetland ID Many		
		Indicate th	e dominant type and		lominant species present		
AQUATIC VEGETATION			✓ Rooted emergentRooted submergentRooted floatingFree floating				
Floating algaeAttached alg			Allacrieu algae	-			
		T					
MACROINVERTEBRATES		Fish, frogs					
		;					
OR OTHER WILDLIFE							
OBSERVED/C							
OBSERVATIO NOTES	UNA GNU						

STREAM ID SB4	STREAM NAME NA			
LAT LONG	DATE 05/12/2021			
PROJEC Somerset Solar	CLIENT AES			
INVESTIGATORS AC				
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —			

Perenniai _	<u> </u>	nt ⊻ Ephem	eral TNW	RPW <u>▼</u>	NRPW	
			_			
CHANNEL FEATURES				Stream Erosion ✓ None Moderate	Heavy	
		Top of Bank Height:				
		-	-		Artificial, Modified or Chai	nnelized
		LB <u>1.0</u>		<u>IL</u>	Yes _ <u>✓</u> No	
			th: 1.00 in		Dam PresentYes _	✓ No
			h: <u>2.0 ft</u>			
		J	Mark: <u>3.0 ft</u>		Sinuosity ✓ Low	Medium High
		Flow Direct	tion: Northwest		Gradient	_
					✓ FlatModerate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	, ,
		No wate	r, stream bed dry		Morphology Types	•
		Stream I			Riffle 30 % Run 50 Pool 20 %	%
FLOW		Standing Flowing	•		Pool 20 %	
CHARACTER	ISTICS	<u>J</u> i lowing	Water		Turbidity	
		Velocity			✓ Clear —Slightly	
		Fast ✓ Slow	Moderate		OpaqueStainedOther	
INOR	CANIC CUB		MDONENTS			ADONENTS
INOR		add up to 10	MPONENTS 0%)		RGANIC SUBSTRATE COM does not necessarily add u	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detilius	plant materials (CPOM)	0
Cobble	64-256 m	m (2.5"-10")	5	Muck-Mud	black, very fine organic	0
Gravel	2-64 mm	(0.1"-2.5")	15	Widok Wida	(FPOM)	0
Sand	0.06-2n	nm (gritty)	30			
Silt		0.06 mm	30	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	20	_		
		Predomina ✓ Forest	ant Surrounding Lar Commer		Indicate the dominant type ✓ Trees Shrub	
		Field/Pasture Industrial				iceous
WATEROUER		Agricult	tural Residen	tial	Floodplain Width	
WATERSHED FEATURES		Other:			✓ Wide > 30ft Mode	rate 15-30ft
		Canopy Co	over		Narrow <16ft	
		Partly o	penPartly sh	aded	Wetland Present Yes	✓ No
		<u>√</u> Shaded Open			Wetland ID	<u>v</u> 140
		Indicate the dominant type and record the dominant species present				
AQUATIC VE	GETATION	Rooted emergentRooted submergentRooted floatingFree floating				
<u> </u>		Floating	g algae	Attached algae	<u> </u>	
		1				
MACROINVERTEBRATES OR OTHER						
		Ί.				
WILDLIFE OBSERVED/C						
OBSERVATION NOTES						

STREAM ID SA-1	STREAM NAME	Unnamed
LAT 43.364037 LONG -78.579096	DATE 05/03/202	21
PROJEC Greens Corners Solar Site	CLIENT	AES Somerset
INVESTIGATORS Drew Timmis, Jess Atutubo		
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW	RPW NRPW ✓

		Fetimate M	leasurements		Stream Erosion	
			k Width: 2.4 ft		None _✓ Moderate .	Heavy
		Top of Banl				
		LB 6.0	· ·	-	Artificial, Modified or Chan	nelized
			h: 2.00 in	-	✓ YesNo	
CHANNEL FE	ATURES	Water Dept			Dam PresentYes	_ No
			Mark: <u>6.0 in</u>		Sinuosity Low	Medium High
		Ŭ				
		Flow Direct	ion: <u>inorui</u>		Gradient ✓ FlatModerate _	Severe
					(0.5/100 ft (2 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 0 % Run 90	%
		Stream of Stream of			Pool 10 %	70
FLOW CHARACTER	ISTICS	Flowing				
UIANAUIEN	31100			,	Turbidity ClearSlightly t	urbidTurbid
İ		Velocity Fast	Moderate		OpaqueStained	uibiuiuibiu
		✓ Slow			Other	
INORGANIC SUB		BSTRATE COMPONENTS		ORGANIC SUBSTRATE COMPONENTS		
	(should add up to 10				oes not necessarily add up	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detilitus	plant materials (CPOM)	15
Cobble		m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")			(FPOM)	
Sand		nm (gritty)	10			
Silt		0.06 mm	50	Marl	grey, shell fragments	
Clay	< 0.004 1	mm (slick)	40	-		
		Predomina Forest	ant Surrounding Lan Commerc		Indicate the dominant type Trees Shrubs	(Check one)
		Field/PastureIndustrial			Grasses Herba	
WATERCHER		✓ Agricult	ural Resident	ial	Floodplain Width	
WATERSHED FEATURES		Other:			Wide > 30ft Moder	ate 15-30ft
		Canopy Cover			Narrow <16ft	
		Partly open Partly shaded			Metland Brecant / Voc	No
		Shaded	Open		Wetland Present _✓ Yes Wetland ID wa-1	No
		Indicate th			ominant species present	
AQUATIC VE	SETATION	Rooted	emergent	Rooted subme	rgentRooted floati	ingFree floating
		Floating	g algae	Attached algae	2	
		1				
		NA				
*#ACROINVE	TEDDATES					
MACROINVER OR OTHER	(IEBKA1E3					
WILDLIFE OBSERVED/C	THER					
OBSERVATIO NOTES	NS AND					

STREAM ID SA-2	STREAM NAME Unnamed	
LAT 43.344216 LONG -78.577802	DATE 05/06/2021	
PROJEC Greens Corners Solar Site	CLIENT AES Somerset	
INVESTIGATORS Drew Timmis, Jess Atutubo		
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW NRPW ✓	

CHANNEL FEATURES							
Top of Bank Width: 5.0 ft Top of Bank Width: 5.0 ft Top of Bank Height: LB 15.0 in RB 15.0 in Water Depth: 7.00 in Water Depth: 7.00 in Water Depth: 7.00 in Water Mark: 12.0 in Flow Direction: Northeast Water Present No water, stream bed dry Stream bed dry Stream bed moist Stream bed dry S			Estimate M	Measurements		Stream Erosion	
Top of Bank Height: LB 15.0 in RB 15.0 in Water Depth: 7.00 in Water Depth: 7.00 in Water Width: 7.0 it High Water Mark: 12.0 in Flow Direction: Northeast Water Present No water, stream bed dry Stream hed moist Standing water ✓ Flowing water ✓ Slow Velocity Fast Moderate ✓ Slow No Water Present No Water Present No water, stream bed dry Stream hed moist Standing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Slow Velocity Fast Moderate ✓ Slow Northeast Northeast Proportion of Reach Represented by Stream Morphology Types Riffle 0 % Run 95 % Furbidity Clear Slightly turbid ✓ Turbid Opaque — Stained Opaque — Stained Opaque — Stained Opaque — Stained Opaque — Stained Sampling Reach Fighting North 100% Substrate Type Bedrock Boulder 2-86 mm (10") Bedrock Boulder 2-86 mm (2.5*-10") Gravet 2-84 mm (0.1*-2.5") Sand 0.06-2mm (gritty) 5 Sand 0.06-2mm (gritty) 5 Silt 0.004-0.06 mm 55 Marl Clay Predominant Surrounding Landuse Forest Agricultural ✓ Agricultural ✓ Agricultural ✓ Agricultural ✓ Perdominant Surrounding Landuse Forest — Commercial Other: Canopy Cover — Partly open Partly shaded ✓ Open WATERSHED FEATURES Indicate the dominant type and record the dominant type (Check one) — Trees — Strubs — Gravet Velocity — Residential Other: Canopy Cover — Partly open Partly open Partly shaded ✓ Open Mater High Artificial, Modified or Channelized ✓ Proportion of Reach Represent — No Mater High Brooted Hoption Artificial, Modified or Channelized NA Artificial, Modified or Channelized Artific in Moderate Proportion of Reach Represent — Yes ✓ No Mater High Brooted Hoption Artificial Modified or Channelized Artificial Modified or Channelized NA MACROINVERTEBRATES							Heavy
CHANNEL FEATURES Bodder Sampling Reach Sampling Reach Sampling Reach Type Sampling Area			Top of Ban	k Heiaht:			
Water Nepth: 7.00 in Water Width: 7.00 in High Water Width: 7.00 in High Water Mark: 12.0 in Sinusity Low Medium High Flow Direction: Northeast Gradient ∠Float (0.5100 ft (2.11100 ft) (10 In100 ft) √Float (0.5100 ft (2.11100 ft) (10 In100 ft) √Float (0.5100 ft (2.11100 ft) (10 In100 ft) √Float				· ·	in	*	nelized
Water Width: 7.0 ft High Water Mark: 12.0 in Flow Direction: Northeast Flow Morphology Types Riffle 0 % Run 95 % Pool 5 % Flow Riffle 0 % Run 95 % Flow Direction: Northeast Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Flow Riffle 0 % Run 95 % Floating water Floating water Floating water Floating water Floating water Floating water Floating water Floating water Floating Morphology Types Riffle 0 % Run 95 % Floating water Floating water Floating water Floating water Floating Hapter Shaded of Shaded water Floating Morphology Types Riffle 0 % Run 95 % Floating water Floating water Floating water Floating water Floating water Floating water Floating Morphology Types Riffle 0 % Run 95 % Floating water						<u>v</u> 16510	
High Water Mark: 12.0 in Flow Direction: Northeast	CHANNEL FE	ATURES				Dam PresentYes	<u>/_</u> No
Flow Direction: Northeast Gradient						Sinuosity Low	Medium High
Water Present			Ŭ				
Water Present			Flow Direct	:ION: <u>เพิ่มเมเตลงเ</u>			Savara
No water, stream bed dry Stream bed moist St							
Stream bed moist							esented by Stream
Standing water						Morphology Types Riffle 0 % Run 95	%
Velocity							70
Velocity		ISTICS	I — `	•			
Fast			Valacity				turbid ✓ Turbid
NORGANIC SUBSTRATE COMPONENTS (should add up to 100%) Substrate Type Diameter Sampling Reach Type Substrate Type Diameter Sampling Reach Sampling Reach Type Sticks, wood, coarse plant materials (CPOM) 25						Opaque Stained	
Substrate Diameter % Composition in Substrate Type Characteristic % Composition in Sampling Reach Type Characteristic % Composition in Sampling Area % Composition in			<u> </u>				
Substrate Type Diameter W Composition in Sampling Reach Type Detritus Detritus Detritus Sticks, wood, coarse plant materials (CPOM) 25 Cobble 64-256 mm (10") Cobble 64-256 mm (2.5"-10") Gravel 2-64 mm (0.1"-2.5") Sand 0.06-2mm (gritty) 5 Silt 0.004-0.06 mm 55 Clay Clay Commercial Field/Pasture Field/Pasture Field/Pasture Canopy Cover Partly open Shaded Canopy Cover Partly open Shaded Detritus Detritus Sticks, wood, coarse plant materials (CPOM) 25 Muck-Mud Dlack, very fine organic (FPOM) Black, very fine organic (FPOM) Detritus Sticks, wood, coarse plant materials (CPOM) 25 Muck-Mud Dlack, very fine organic (FPOM) Flow Field/Pasture Indicate the dominant type (Check one) Trees Grasses Herbaceous Floodplain Width Wide > 30ft Marrow <16ft Wetland Present Narrow <16ft Wetland Present Person Wetland ID Indicate the dominant type and record the dominant species present Rooted emergent Flooted submergent Flooted submergent Flooted submergent Flooted floating Free floating Free floating Free floating Attached algae	INOR	GANIC SUB	STRATE CO	MPONENTS	0	ORGANIC SUBSTRATE COMPONENTS	
Bedrock Boulder > 256 mm (10") Cobble 64-256 mm (2.5"-10") Sand 0.06-2mm (gritty) Silt 0.004-0.06 mm 55 Clay < 0.004 mm (slick) Field/Pasture		(should	add up to 100			does not necessarily add u	p to 100%)
Boulder > 256 mm (10")		Diame	ter			Characteristic	
Boulder > 256 mm (10") plant materials (CPOM) 25 Cobble 64-256 mm (2.5"-10") Muck-Mud black, very fine organic (FPOM) Sand 0.06-2mm (gritty) 5 Marl grey, shell fragments Clay < 0.004-0.06 mm 55 Marl grey, shell fragments Clay < 0.004 mm (slick) 40 Indicate the dominant type (Check one) Forest	Bedrock				Detritus		
Gravel 2-64 mm (0.1"-2.5")			` ′		Donnas	plant materials (CPOM)	25
Gravel 2-64 mm (0.1"-2.5") (FPOM)					Muck-Mud		
Silt 0.004-0.06 mm 55			, ,			(FPOM)	
Clay			,	_		I II for your atte	
## Predominant Surrounding Landuse ## Forest					Mari	grey, shell tragments	
WATERSHED FEATURES - Forest _ Commercial _ Trees _ Shrubs _ Herbaceous - Agricultural _ Residential _ Wide > 30ft _ Moderate 15-30ft - Canopy Cover _ Partly open _ Partly shaded _ Shaded _ Open	Clay	< 0.004	` ′		.1	In the state the slaminant time	(2)
WATERSHED FEATURES Field/Pasture						Trees Shrub	
WATERSHED FEATURES Other: Canopy Cover Partly open Partly shaded Shaded ✓ Open Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free floating ✓ Floating algae NA MACROINVERTEBRATES							
The state of the	WATERCHER		✓ Agricultural ✓ Residential			Floodplain Width	
Partly openPartly shadedYopen			Other:			Wide > 30ft Moderate 15-30ft	
Shaded			Canopy Co	over		✓ Narrow <16ft	
Indicate the dominant type and record the dominant species present Rooted emergent Floating algae NA NA MACROINVERTEBRATES Negetiful Wetland ID Wetland ID Record the dominant species present Rooted floating Attached algae NA			. —	· — ·	aded	Wetland Present Ves / No	
AQUATIC VEGETATION Rooted emergent Rooted submergent Rooted floating Free floating Free floating Free floating NA			Shaded	I <u>√</u> Open			<u></u>
Floating algae Attached algae NA MACROINVERTEBRATES							
NA MACROINVERTEBRATES	AQUATIC VEGETATION						ingFree floating
MACROINVERTEBRATES			<u>√</u> Floating	<u> </u>	Allacrieu alya	<u> </u>	
MACROINVERTEBRATES			T				
MACROINVERTEBRATES	NA NA						
	MACROINVER OR OTHER	RTEBRATES	;				

	NA
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

STREAM ID SA-3	STREAM NAME Unnamed				
LAT 43.347611 LONG -78.582354	DATE 05/10/2021				
PROJEC Somerset Solar Site	CLIENT	CLIENT AES Somerset			
INVESTIGATORS Drew Timmis, Jess Atutubo					
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW	RPW NRPW ✓			

		Estimate M	leasurements		Stream Erosion	
		Top of Bank Width: 4.0 ft			✓ NoneModerateHeavy	
		Top of Ban				•
		LB 8.0	o .		Artificial, Modified or Chan	nelized
				"' .	<u>√</u> YesNo	
CHANNEL FE	ATURES	'	h: 4.00 in		Dam PresentYes	/ No
		Water Widt				
		High Water	Mark: <u>7.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	ion: Northeast		Gradient	
					Flat✓ Moderate (0.5/100 ft (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres	ant .		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	sented by Stream
			ped moist		Riffle 0 % Run 90	%
FLOW		Standing	•		Pool 10 %	
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ Clear —Slightly t	turbidTurbid
			Moderate		OpaqueStained	
		✓ Slow			Other	
INORGANIC SUBS		STRATE COMPONENTS		O	ORGANIC SUBSTRATE COMPONENTS	
	(should add up to 10		00%)		loes not necessarily add up	p to 100%)
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Datellar	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	10
Cobble	64-256 m	m (2.5"-10")		Music Mud	black, very fine organic	
Gravel	2-64 mm	n (0.1"-2.5")	0	Muck-Mud	(FPOM)	
Sand	0.06-2r	nm (gritty)	5			
Silt	0.004-0	0.06 mm	60	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	35			
			nt Surrounding Lan		Indicate the dominant type	
		✓ Forest Commercial			✓ Trees Shrub	
			astureIndustrial		Grasses Herba	ceous
WATERSHED		Agricultural Residential Other:			Floodplain Width	
FEATURES		Other.			Wide > 30ft Moder	rate 15-30ft
		Canopy Cover			Narrow <16ft	
		Partly open ✓ Partly shaded			Wetland PresentYes	No
		ShadedOpen			Wetland ID wa-5, wa-12, wa-3	
		Indicate the dominant type and record the dominant species present				
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating				ingFree floating
		Floating	g algae	Attached algae	9	
		Tadpoles o	bserved			
MACROINVER OR OTHER	KIEBRATES]				
WILDLIFE OBSERVED/C	THED					
OBSERVATIO						
NOTES		1				

STREAM ID SA-4	STREAM NAME Unnamed			
LAT 43.332146 LONG -78.607750	DATE 05/10/2021			
PROJEC Somerset Solar Site	CLIENT AES Somerset			
INVESTIGATORS Drew Timmis, Jess Atutubo				
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓			

i erennar =	<u> </u>	пі— Ерпепі		101 W <u> </u>	111111111111111111111111111111111111111	
		Estimate N	leasurements		Stream Erosion	
		Top of Ban	k Width: <u>18.0 in</u>		✓ NoneModerate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Channelized	
					✓ Yes No	
CHANNEL FE	ATURES	Water Depth: 1.00 in			_	
OHANNELTE	ATORLO	Water Width: 6.0 in			Dam PresentYes	<u>/ No</u>
		High Water	Mark: <u>6.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	ion: North		Gradient	
					Flat Moderate _	Severe
						(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	sented by Stream
		Stream b			Riffle 0 % Run 100	0 %
FLOW		✓ Standing			Pool 0 %	
CHARACTER	ISTICS	Flowing	water		Turbidity	
		Velocity			Clear Slightly	turbidTurbid
		Fast Moderate			OpaqueStained	
		Slow			Other	
INOR	INORGANIC SUE				ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)	
Substrate	(should add up to 10		% Composition in	Substrate		% Composition in
Туре	Diame	eter	Sampling Reach	Type	Characteristic	Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		า (0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)	15			
Silt		0.06 mm	40	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	35			
		Predominant Surrounding Landuse ✓ Forest Commercial			Indicate the dominant type Trees Shrub	(Check one)
		Field/PastureIndustrial Residential			Grasses Herba	
					Eleadaleia Width	
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moder	rate 15-30ft
			over		✓ Narrow <16ft	
		Canopy Co ✓ Partly o		aded		
		Shaded	Open		Wetland PresentNo Wetland ID wa-7	
					dominant species present	
AQUATIC VEGETATION		Rooted emergentRooted subm				ingFree floating
		Floating	g algae	Attached alga	le .	
		1				
		NA				
		1				

	NA
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

STREAM ID SA-5	STREAM NAME Unnamed
LAT 43.356124 LONG -78.585955	DATE 05/12/2021
PROJEC Somerset Solar Site	CLIENT AES Somerset
INVESTIGATORS Drew Timmis, Jess Atutubo	
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW _✓

Perenniai —	<u> </u>	ent <u> </u>	erai — TNVV —	RPW —	NRPW <u> </u>	
		Estimate N	/leasurements		Stream Erosion	
			k Width: 3.0 ft		✓ NoneModerate _	Heavy
İ	1	Top of Banl	k Height:		Artificial, Modified or Chan	nelized
	1	LB <u>14.0</u>	<u>in</u> RB <u>14.0 i</u>	:	✓ Yes No	
CHANNEL FEATURES			th: <u>0.00 in</u>		Dam PresentYes	/ No
	I	Water Widt				
			r Mark: <u>6.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	ion: East		Gradient	-
						Severe (10 ft/100 ft)
 I	_	Water Pres			Proportion of Reach Repres	sented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 0 % Run 90	%
FLOW		Standing	g water		Pool 10 %	
CHARACTERI	ISTICS	Flowing	water		Turbidity	
	1	Velocity			ClearSlightly t	turbidTurbid
		Fast .	Moderate		OpaqueStainedOther	
INOR	CANIC CUE	_	**PONENTS	01		PONENTO
INUK		STRATE COI		_	RGANIC SUBSTRATE COMPONENTS does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	-	mm (10")		Donnes	plant materials (CPOM)	10
Crovel	-	nm (2.5"-10")	1-	Muck-Mud	black, very fine organic (FPOM)	
Gravel Sand		n (0.1"-2.5") mm (gritty)	15 15		(FF OWI)	
Silt		0.06 mm	45	Marl	grey, shell fragments	
Clay		mm (slick)	25		97,	
		Predomina	ant Surrounding Lan	duse	Indicate the dominant type	(Check one)
ľ		Forest			Trees Shrubs Grasses Herbad	
	1	Agricult	astureIndustrial tural Resident	tial	_	ceous
WATERSHED FEATURES	,	Other:	_		Floodplain Width Wide > 30ft Moder	210 15-30ft
	1	Canopy Co	over		✓ Narrow <16ft	ate 10 con
	1	Partly o		aded	Wetland PresentYes	/ No
		—Shaded	✓ Open		Wetland ID	<u>√</u> NO
					lominant species present	- 0 .:
AQUATIC VEC	AQUATIC VEGETATION Rooted emergent Floating algae		_	Rooted subme Attached algae	<u> </u>	ingFree floating
				Attaorios signi	,	
		1				
l						
MACROINVER OR OTHER	RTEBRATES	;				
WILDLIFE OBSERVED/O	TUED					
OBSERVATIO						
NOTES						

STREAM ID SA-6	STREAM NAME	Unnamed
LAT 43.356090 LONG -78.586385	DATE 05/12/202	21
PROJEC Somerset Solar Site	CLIENT	AES Somerset
INVESTIGATORS Drew Timmis, Jess Atutubo		
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW	RPW NRPW <u>✓</u>

Perennial _	<u> </u>	ent Epheme	eral V TNW —	RPW	NRPW <u>*</u>		
			Measurements		Stream Erosion	Haarin	
		·		✓ NoneModerate _	Heavy		
		Top of Bank	· ·	•	Artificial, Modified or Chan	nelized	
			<u>in</u> RB <u>16.0 i</u>	<u>in</u> .	<u>√</u> YesNo		
CHANNEL FE	ATURES	Water Dept Water Widtl	th: <u>0.00 in</u> :h: 0.0 ft		Dam PresentYes	<u>′</u> No	
			Mark: 8.0 in		Sinuosity Low	Medium High	
		"	tion: South			-	
		1 low Biles.	1011. <u></u>		Gradient Flat✓ Moderate	Severe	
		<u> </u>			(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre Morphology Types	sented by Stream	
			r, stream bed dry bed moist		Riffle 0 % Run 95	%	
=1 014/		Standing			Pool 5 %		
FLOW CHARACTERI	ISTICS	Flowing	water		Turkidite		
İ		Velocity			Turbidity ClearSlightly t	turbidTurbid	
l			Moderate		OpaqueStained		
<u> </u>		Slow			Other		
INOR		STRATE COI			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate	<u> </u>		% Composition in	Substrate		% Composition in	
Туре	Diame	ter	Sampling Reach	Туре	Characteristic	Sampling Area	
Bedrock	<u> </u>			Detritus	sticks, wood, coarse		
Boulder		mm (10")		Donnes	plant materials (CPOM)	15	
Cobble		nm (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel		n (0.1"-2.5")	15		(FPOM)		
Sand		mm (gritty)	15	NAI	are a shall from onto		
Silt		0.06 mm	45	Marl	grey, shell fragments		
Clay	< 0.004 i	mm (slick)	25 ant Surrounding Lan	duco	Indicate the dominant type	(Chaok ana)	
		Forest	Commerc	cial	Trees Shrubs		
		✓ Field/Pa	astureIndustrial		Grasses Herbac		
WATERSHED	,	Agricult	tural Resident	tial	Floodplain Width		
FEATURES		Other:			Wide > 30ft Moder	ate 15-30ft	
		Canopy Co			✓ Narrow <16ft		
		Partly o		aded	Wetland Present Yes ✓ No		
		Shaded	d <u>√</u> Open		Wetland ID		
		Indicate the dominant type and record t					
			Rooted subme Attached algae	_	ingFree floating		
				7111401104 4.5			
MACROINVER	RTEBRATES	;					
OR OTHER WILDLIFE							
OBSERVED/O							
NOTES	NO AILE						

STREAM ID SA-7	STREAM NAME Unnamed		
LAT 43.355269 LONG -78.594242	DATE 05/12/2021		
PROJEC Somerset Solar Site	CLIENT AES Somerset		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓		

Perennial _	<u> </u>	ent Epheme	eral 🛂 TNW 📖	RPW	NRPW <u>*</u>	
		= dimension B			A: H 1	
	!		/leasurements k Width: <u>2.6 ft</u>		Stream Erosion None ✓ Moderate .	Неалл
	!					ricavy
	!	Top of Bank	ŭ		Artificial, Modified or Chan	nelized
		LB <u>18.0</u>	<u>in RB 18.0 i</u>	<u>in</u>	<u>√</u> YesNo	
CHANNEL FE	ATURES	Water Dept	th: 0.00 in		Dam PresentYesv	/ No
	!	Water Widtl	h: <u>0.0 ft</u>		Dalli Fieseill ies _v	NO
	!	High Water	Mark: <u>10.0 in</u>		Sinuosity _/ Low	Medium High
İ	!	Flow Direct	tion: Southeast	_	Gradient	
	!	1			Flat Moderate _	
		<u> </u>			(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)
İ	!	Water Pres			Proportion of Reach Repre	sented by Stream
	!		r, stream bed dry bed moist		Morphology Types Riffle 0 % Run 90	%
l	!	Standing			Pool 10 %	70
FLOW CHARACTERI	ISTICS	Flowing	-		10	
CHARACTER	31103	-			Turbidity	Thomas in
I	!	Velocity	B.Al		Clear Slightly t Opaque Stained	turbidTurbid
I	!	Fast _ Slow	Moderate		Other	
INOR	- * * * * O O U D	_				
INUK		STRATE COI		_	RGANIC SUBSTRATE COM does not necessarily add u	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Dellitus	plant materials (CPOM)	5
Cobble	64-256 m	nm (2.5"-10")		- Muck-Mud	black, very fine organic	
Gravel	2-64 mm	n (0.1"-2.5")	20	WIUCK-WIUG	(FPOM)	
Sand	0.06-2r	mm (gritty)	10			
Silt	0.004-0	0.06 mm	45	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	25			
I	!	Predomina	ant Surrounding Lan		Indicate the dominant type	
I	!	Forest	Commercasture Industrial		Trees Shrubs	
I	!	Agricult	tural Resident		Glasses _v_llelba	ceous
WATERSHED	!	Other:		iidi	Floodplain Width	. 45.000
FEATURES	!				Wide > 30ft Moder ✓ Narrow <16ft	rate 15-30ft
I	!	Canopy Co			✓ Nanow < rott	
İ	!	Partly o Shaded		aded		<u></u> ✓ No
					Wetland ID	
					dominant species present	' Franklandian
			Rooted subme Attached algae	_	ingFree floating	
			<u></u>	Allaonoa aiga		
						
İ						
MACROINVER	PTERRATES	,				
OR OTHER	HEDRAILS	'				
WILDLIFE						

MACROINVERTEBRATES
OR OTHER
WILDLIFE
OBSERVED/OTHER
OBSERVATIONS AND
NOTES

STREAM ID SA-8	STREAM NAME Unnamed		
LAT 43.353665 LONG -78.593939	DATE 05/12/2021		
PROJEC Somerset Solar Site	CLIENT AES Somerset		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW _✓		

i erennai =	intermitte	пс— приети	7.4	1XI VV —		
		Fetimate N	/leasurements		Stream Erosion	
			k Width: 3.0 ft		✓ NoneModerate _	Heavy
		Top of Bank	k Heiaht:		_	·
			in RB 20.0 i		Artificial, Modified or Chan ✓ Yes No	nelized
			th: 7.00 in	<u> </u>	<u>A</u> 162 — 140	
CHANNEL FE	ATURES	Water Dept			Dam PresentYes _✓	<u>′</u> No
					Sinuosity Low	Medium ✓ High
			Mark: 12.0 in		_	Wodiani
		Flow Direct	ion: <u>East</u>		Gradient Flat Moderate	/ Covere
		1		•		(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry		Morphology Types Riffle 0 % Run 85	0/
		Stream b ✓ Standing			Riffle 0 % Run 85 Pool 15 %	%
FLOW	ETICS	Flowing			1001 13 70	
CHARACTERI	31163		Trace:		Turbidity	1.10 Thomas Cal
İ		Velocity	Madarata		Clear Slightly t Opaque Stained	turbidTurbid
		Fast _ Slow	Moderate		Other	
INOR	GANIC SUB	STRATE COI	MPONENTS	10	RGANIC SUBSTRATE COM	DONENTS
		add up to 100		_	(does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detilius	plant materials (CPOM)	15
Cobble	64-256 m	ım (2.5"-10")		Muck-Mud	black, very fine organic	5
Gravel		า (0.1"-2.5")		Tridoitac.	(FPOM)	ິນ
Sand		mm (gritty)	20			
Silt		0.06 mm	55	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick)	25	-		
I		Predomina Forest	ant Surrounding Lan Commerc		Indicate the dominant type Trees Shrubs	(Check one)
			astureIndustrial		Grasses Herbac	
WATERCHER		Agricult		tial .		
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moder	ate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		Partly o		aded	Matland Bresont Voc	/ No
		Shaded	√ Open		Wetland PresentYes Wetland ID	<u>√</u> No
		Indicate th	e dominant type and	d record the d	lominant species present	
AQUATIC VEGETATION Rooted emergent			Rooted subme	_	ingFree floating	
	Floating algaeAttached algae					
						
*#ACDOINVE	TEDDATES	.				
MACROINVER OR OTHER	(IEBRATES	'				
WILDLIFE OBSERVED/O						
OBSERVATIO NOTES	NS AND					

STREAM ID SA-9	STREAM NAME	Unnamed
LAT 43.356678 LONG -78.594267	DATE 05/12/202	21
PROJEC Somerset Solar Site	CLIENT	AES Somerset
INVESTIGATORS Drew Timmis, Jess Atutubo		
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW	RPW NRPW ✓

Perennial <u>-</u>	<u> </u>	ent Epheme	eral TNW	RPW	NRPW <u>*</u>		
					O: Feedlan		
			/leasurements k Width: <u>4.0</u> ft		Stream Erosion ✓ None Moderate	Heavy	
		Top of Bank	k Height:		Artificial, Modified or Chan	nelized	
l	ļ	LB <u>7.0</u> i	<u>in</u> RB <u>7.0</u> i	!. <u>.</u>	Yes _✓ No	11011200	
CHANNEL FE	ATURES	· ·	th: 4.00 in		Dam PresentYes ✓	⁄ No	
	ļ	Water Widtl				_	
	ļ	"	r Mark: <u>7.0 in</u>		Sinuosity Low	Medium High	
	ļ	Flow Direct	tion: Northeast		Gradient	-	
					Flat ✓ Moderate (0.5/100 ft) (2 ft/100 ft)	Severe (10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	sented by Stream	
	ļ		r, stream bed dry bed moist		Morphology Types Riffle 0 % Run 85	%	
EL OW	ļ	Standing			Pool 15 %		
FLOW CHARACTERI	STICS	✓ Flowing v	water		Turbidity		
l	ļ	Velocity			ClearSlightly t	turbidTurbid	
l		Fast	✓ Moderate		OpaqueStained		
		Slow			Other		
INOR		SUBSTRATE COMPONENTS ould add up to 100%)			RGANIC SUBSTRATE COMPONENTS does not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Dotritue	sticks, wood, coarse		
Boulder		mm (10")		Detritus	plant materials (CPOM)	20	
Cobble	64-256 m	nm (2.5"-10")		Muck-Mud	black, very fine organic	5	
Gravel		n (0.1"-2.5")	5	WIGOR WIGG	(FPOM)	5	
Sand		mm (gritty)	10				
Silt		0.06 mm	50	Marl	grey, shell fragments		
Clay	< 0.004 1	mm (slick)	35				
		Predomina ✓ Forest	ant Surrounding Lan Commerc		Indicate the dominant type ✓ Trees Shrubs		
		✓ Field/Pa	astureIndustrial		Grasses Herbaceous		
WATERSHED	ļ	Agricult	tural Resident	tial	Floodplain Width		
FEATURES		Other:			Wide > 30ft✓ Moder	ate 15-30ft	
		Canopy Co			Narrow <16ft		
			ppen <u>√</u> Partly sha	aded	Wetland Present Yes	✓ No	
		Shaded	OpenOpen		Wetland ID		
· OUATIONE		Indicate the dominant type and record the dominant species present				Transfloating	
AQUATIC VEC				Rooted subme Attached algae	_	ingFree floating	
				7111401164 4154	,		
		$\overline{}$					
MACROINVER	RTEBRATES	;					
OR OTHER WILDLIFE							
OBSERVED/O							
NOTES							

STREAM ID SA-10	STREAM NAME Unnamed
LAT 43.356289 LONG -78.610539	DATE 05/12/2021
PROJEC Somerset Solar Site	CLIENT AES Somerset
INVESTIGATORS Drew Timmis, Jess Atutubo)
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial intermittent Epnemeral Invv RPW NRPW							
		T =			Characan Francisca		
		Estimate Measurements Top of Bank Width: 5.0 ft			Stream Erosion NoneModerateHeavy		
	l	Top of Bank	k Height:		Artificial, Modified or Chan	nelized	
		LB <u>10.0</u> i	<u>in RB 10.0 i</u>	:	✓ Yes No	Helizod	
CHANNEL FE	ATURES	Water Depth: 3.00 in			Dam PresentYes	/ No	
	l	Water Widtl					
		"	r Mark: <u>12.0 in</u>		Sinuosity _/ Low Medium High		
		Flow Direction: North			Gradient		
		ĺ			FlatModerateSevere (2 ft/100 ft)(10 ft/100 ft)		
		Water Present				Proportion of Reach Represented by Stream	
		No water, stream bed dry			Morphology Types		
			bed moist		Riffle 0 % Run 90 % Pool 10 %		
FLOW	CTION	✓ Standing water — Flowing water			Pool 10 %		
CHARACTERI	STICS		water		Turbidity Clear <u>✓</u> Slightly turbidT		
		Velocity	Madanoto		ClearSlightly turbid _ OpaqueStained		
		Fast Moderate			OpaqueStained		
INOR	CANIC SUR	SSTRATE COMPONENTS		0	ORGANIC SUBSTRATE COMPONENTS		
IIION		add up to 100%)		(does not necessarily add up to 100%)			
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus Muck-Mud	sticks, wood, coarse		
Boulder		mm (10")			plant materials (CPOM)	10	
Cobble		ım (2.5"-10")	20		black, very fine organic		
Gravel		n (0.1"-2.5")	10		(FPOM)		
Sand		nm (gritty)	10				
Silt		0.06 mm	40	Marl	grey, shell fragments		
Clay	< 0.004 i	mm (slick)	20	.1	La Parta the deminant time	(2)	
		Predomina _✓ Forest	ant Surrounding Lan Commerc	i duse rcial	Indicate the dominant type (Check one) Trees Shrubs		
		✓ Field/Pa	astureIndustrial		Grasses Herbaceo		
WATERSHED		Agricultural Residential Other:		tial	Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft		
FEATURES							
		Canopy Cover					
ĺ		Partly openPartly shaded			Wetland PresentYes _✓ No		
		ShadedOpen		Wetland ID			
AQUATIC VEGETATION		Indicate the dominant type and record the dominant species present					
		Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae					
			Floating algae Attached algae				
MACROINVER	RTEBRATES	ا					
OR OTHER WILDLIFE							

MACROINVERTEBRATES
OR OTHER
WILDLIFE
OBSERVED/OTHER
OBSERVATIONS AND
NOTES

STREAM ID SA-11	STREAM NAME Unnamed					
LAT 43.357121 LONG -78.611405	DATE 05/12/2021					
PROJEC Somerset Solar Site	CLIENT AES Somerset					
INVESTIGATORS Drew Timmis, Jess Atutubo						
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓					

Perennial intermittent Epnemeral INW RPW NRPW												
		Estimate Measurements Top of Bank Width: 4.0 ft			Stream Erosion ✓ NoneModerate	Heavy						
		Top of Ban	k Height:		Autitioial Maditiod on Chan	alimad						
		LB 10.0	o .	in	Artificial, Modified or Channelized							
			h: <u>3.00 in</u>	<u></u>	<u>√</u> YesNo							
CHANNEL FE	ATURES	Water Dept			Dam Present ✓ Yes _	_No						
					Sinuosity _/ Low	Medium High						
		High Water Mark: 8.0 in Flow Direction: North				<u> </u>						
		Flow Direction. North			Gradient Flat Moderate✓ Severe							
					(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)						
FLOW CHARACTERISTICS		Water Present No water, stream bed dry Stream bed moist Standing water Flowing water		Proportion of Reach Represented by Stream Morphology Types Riffle 0 % Run 85 % Pool 15 % Turbidity								
		Velocity			ClearSlightly turbidTu							
		Fast Moderate			OpaqueStained							
		✓ Slow			Other							
INOR		BSTRATE COMPONENTS add up to 100%)		_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)							
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area						
Bedrock				Detritus	sticks, wood, coarse							
Boulder	> 256 mm (10")		5	Detritus	plant materials (CPOM)	10						
Cobble	64-256 mm (2.5"-10")		20	Muck-Mud	black, very fine organic							
Gravel	2-64 mm	n (0.1"-2.5")		Widok Wida	(FPOM)							
Sand	0.06-2r	nm (gritty)	10									
Silt	0.004-0	0.06 mm	40 Marl		grey, shell fragments							
Clay	< 0.004	mm (slick) 20										
		Predominant Surrounding Landuse			Indicate the dominant type (Check one)							
		✓ ForestCommercial			Trees Shrub Grasses Herba	3						
		✓ Field/PastureIndustrial Agricultural Residential			Grassesnerba	Jeous						
WATERSHED FEATURES		Other: Floodplain Width Wide > 30ft Moderate 15-30ft			ate 15-30ft							
		Canopy Cover Partly open			✓ Narrow <16ft Wetland PresentYes _✓ No Wetland ID							
							AQUATIC VEGETATION		Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free floating Floating algae Attached algae			
MACROINVERTEBRATES OR OTHER												

MACROINVERTEBRATES
OR OTHER
WILDLIFE
OBSERVED/OTHER
OBSERVATIONS AND
NOTES

STREAM ID SA-12	STREAM NAME Unnamed					
LAT 43.353152 LONG -78.609603	DATE 05/12/2021					
PROJEC Somerset Solar Site	CLIENT AES Somerset					
INVESTIGATORS Drew Timmis, Jess Atutubo						
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓					

Perennial _	_ Intermitte	ent Epheme	eral ✓ TNW —	RPW	NRPW <u></u>		
			/leasurements		Stream Erosion		
	!	Top of Banl	k Width: 4.0 ft		None✓ Moderate .	Heavy	
	!	Top of Bank	k Height:		A citi-1-1 M- difficul on Ohen	N=- 4	
	!		<u>in</u> RB <u>10.0 i</u>	•	Artificial, Modified or Channelized		
	!				<u>√</u> YesNo		
CHANNEL FE	ATURES	· ·	th: 0.00 in		Dam PresentYes _✓ No	/ No	
	!	Water Width: 0.0 ft					
	!	High Water	Mark: <u>5.0 in</u>		Sinuosity _/ Low	Medium High	
	!	Flow Direction: East			Gradient		
	!	1			Flat Moderate _	✓ Severe	
					(0.5/100 ft (2 ft/100 ft)		
		Water Present			Proportion of Reach Repre	sented by Stream	
	!		r, stream bed dry		Morphology Types		
	!		ped moist		Riffle 0 % Run 100 % Pool 0 % Turbidity		
FLOW	!	Standing	•				
CHARACTERI	STICS	Flowing v	water				
	!	Velocity			ClearSlightly t		
	!	Fast Moderate			OpaqueStained		
	!	Slow	Slow		Other		
INORGANIC SUB		SSTRATE COMPONENTS		0	ORGANIC SUBSTRATE COMPONENTS		
<u></u>		add up to 100%)		(does not necessarily add up to 100%)			
Substrate	Diame	tor	% Composition in	Substrate	Characteristic	% Composition in	
Type	Diame	tei	Sampling Reach	Type	Charactensuc	Sampling Area	
Bedrock			 	Dotritus	sticks, wood, coarse		
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)		
Cobble	64-256 m	nm (2.5"-10")	25	N.A. Ja N.A. al	black, very fine organic		
Gravel	2-64 mm	n (0.1"-2.5")	15	Muck-Mud	(FPOM)		
Sand		mm (gritty)	10				
Silt		0.06 mm	40	Marl	grey, shell fragments		
Clay		mm (slick)	10	·	groy, onon nagmonas		
Clay	₹ 0.00- 1	` '	_	-1	In disease the dominant tune	(0)!	
ĺ	!	Predominant Surrounding Landuse Forest Commercial		i duse rcial	Indicate the dominant type (Check one) Trees Shrubs		
	!	Field/Pasture Industrial			Grasses Herba		
	!	Agricultural Residential		tial	_	0005	
WATERSHED	!	Other:			Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft		
FEATURES	!						
	!	Canopy Cover			V Narrow Croft		
		Partly openPartly shaded			Wetland PresentYes _✓ No		
		Shaded✓ Open Wetland ID					
		Indicate the dominant type and record the dominant species present					
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating					
		Floating	ي algae	Attached algae	e		
MACROINVER	RTEBRATES	;					
OR OTHER WILDLIFE							
OBSERVED/OTHER							

OBSERVATIONS AND NOTES

STREAM ID SA-13	STREAM NAME	Unnamed	
LAT 43.352827 LONG -78.599648	DATE 05/12/2021		
PROJEC Somerset Solar Site	CLIENT	AES Somerset	
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW	RPW NRPW ✓	

i erennai =	<u> </u>	пі— прпеше	11111	101 00	1010 VV —	
					Stream Erosion ✓ None Moderate .	Heavy
		Top of Bank			-	
		LB <u>2.0</u>	ŭ	£1.	Artificial, Modified or Chan	nelized
				<u></u>	<u>√</u> YesNo	
CHANNEL FE	ATURES	·	h: <u>0.00 in</u>		Dam PresentYes	<u>′</u> No
		Water Widt			Sinuosity / Low	Medium High
		J	Mark: <u>1.0 in</u>		omdosity v Low	Medidiff Flight
		Flow Direct	ion: <u>East</u>		Gradient Flat _✓ Moderate _	Severe
						(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
		✓ No water Stream b	r, stream bed dry		Morphology Types Riffle 0 % Run 100) %
		Standing			Pool 0 %	, , , , ,
FLOW CHARACTERI	STICS	Flowing			Total Caller	
		Velocity			Turbidity ClearSlightly turbidTurbid	
		Fast Moderate			OpaqueStained	
		Slow			Other	
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)		_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate	(Snould a	add up to Tut	% Composition in	Substrate	loes not necessarily add up	% Composition in
Type	Diame	ter	Sampling Reach	Type	Characteristic	Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detitios	plant materials (CPOM)	
Cobble		m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")	15		(FPOM)	
Sand		nm (gritty)	10			
Silt		0.06 mm	50	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	25 Int Surrounding Lan	duco	Indicate the dominant type	(Chack and)
		Forest	Commer		Indicate the dominant type (Check one) Trees Shrubs	
		Field/Pa	asture // Industrial		Grasses Herba	ceous
WATERSHED		Agricult	ural Resident	tial	Floodplain Width	
FEATURES		Other:			Wide > 30ft Moder	ate 15-30ft
		Canopy Co			✓ Narrow <16ft	
		Partly o Shaded		aded	Wetland PresentYes	✓ No
			<u></u> '		Wetland ID	
AQUATIC VEGETATION				d record the d Rooted subme	lominant species present ergent Rooted floati	ing Free floating
714071110 721	21,,,,,,	Floating		Attached algae		

MACROINVERTEBRATES
OR OTHER
WILDLIFE
OBSERVED/OTHER
OBSERVATIONS AND
NOTES

STREAM ID SA-14	STREAM NAME	Unnamed	
LAT 43.351345 LONG -78.600720	DATE 05/12/2021		
PROJEC Somerset Solar Site	CLIENT	AES Somerset	
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW R	RPW NRPW <u>✓</u>	

		•					
			leasurements k Width: 5.0 ft		Stream Erosion ✓ None Moderate Heavy		
		Top of Bank Wight:					
			· ·	f4	Artificial, Modified or Chan	nelized	
		LB 2.0		<u>IL</u>	✓ YesNo		
CHANNEL FE	ATURES	'	h: <u>0.00 in</u>		Dam PresentYes	∕ No	
		Water Widt				_	
		ľ	Mark: <u>1.0 ft</u>		Sinuosity / Low	Medium High	
		Flow Direct	ion: <u>East</u>		Gradient		
					Flat Moderate (2 ft/100 ft)		
		Water Pres			Proportion of Reach Repre	sented by Stream	
			r, stream bed dry bed moist		Morphology Types Riffle 0 % Run 100) %	
		Standing			Pool 0 %		
FLOW CHARACTER	ISTICS	Flowing	water				
					Turbidity ClearSlightly t	turbidTurbid	
		Velocity Fast	Moderate		OpaqueStained		
		Slow			Other		
INORGANIC SUBSTRATE COMPONENT			MPONENTS	ORGANIC SUBSTRATE COMPONENTS		IPONENTS	
	(should	add up to 100	0%)	(does not necessarily add up to 100%)			
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256	mm (10")		Dottituo	plant materials (CPOM)		
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel	2-64 mm	n (0.1"-2.5")	15		(FPOM)		
Sand	0.06-2r	nm (gritty)	10				
Silt		0.06 mm	50	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)	25				
		Predomina Forest	Int Surrounding Lan Commer	iduse	Indicate the dominant type Trees Shrubs		
		_	asture Industrial		Grasses Herbaceous		
			ural Resident		_		
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moder	ate 15-30ft	
		Canopy Co	wor		✓ Narrow <16ft	4.0 .0 00.1	
		Partly o		aded			
-		Shaded	✓ Open		Wetland PresentYes _✓ No Wetland ID		
AQUATIC VEGETATION					dominant species present	inn Francisco	
		— Rooted Floating		Rooted submo		ingFree floating	
				aorioa aiga			
		phragmites	common				

	phragmites common
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-1	Feature NAME Unnamed		
LAT 43.356145 LONG -78.584416	DATE 05/12/2021		
PROJEC Somerset	CLIENT AES		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW		

			-				
		Estimate N	/leasurements		Stream Erosion		
			k Width:ft		NoneModerate	Heavy	
		Top of Banl	k Height:		Artificial, Modified or Char	··· - lima d	
		in DD in			Yes ✓ No	inelizea	
WATERBODY		Water Depth: 12.00 in					
FEATURES		Water Width: 45.0 ft			Dam PresentYes	<u>/_</u> No	
			Mark: _2.0 ft		Sinuosity Low	Medium High	
		Ŭ				g	
		Flow Direct	tion:		Gradient ✓ Flat Moderate _	Severe	
					(0.5/100 ft (2 ft/100 ft)		
		Water Pres			Proportion of Reach Repre	sented by Stream	
			r, stream bed dry		Morphology Types Riffle % Run	%	
		Stream b ✓ Standing			Pool 100 %	/0	
CHARACTER	ISTICS	Flowing			100		
					Turbidity	· · · · · · · · · · · · · · · · · · ·	
		Velocity Fast Moderate			ClearSlightly turbidTurbid Turbid OpaqueStained		
		Fast .	IVIOUETALE		Other		
INOR	CANIC SUB	STRATE CO	MDONENTS	0	ORGANIC SUBSTRATE COMPONENTS		
		add up to 100		_	(does not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256	mm (10")		Dellitus	plant materials (CPOM)	25	
Cobble	64-256 m	ım (2.5"-10")		Muck-Mud	black, very fine organic	40	
Gravel	2-64 mm	า (0.1"-2.5")		WIGOR WIGG	(FPOM)	10	
Sand	0.06-2r	nm (gritty)	10				
Silt	0.004-	0.06 mm	50	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)	40				
			ant Surrounding Lan		Indicate the dominant type		
		✓ Forest Field/Pa	Commercasture Industrial		✓ Trees Shrubs Grasses Herbaceous		
		Agricultural Residential			-	00000	
WATERSHED FEATURES		Other:	_		Floodplain Width	rate 15-30ft	
LATOREO		0			Wide > 30ft Moderate 15-30ft Moderate 15-30ft		
		Canopy Co ✓ Partly o		aded			
		Shaded Open			Wetland PresentYesNo		
Indicate the domin		e dominant type and	d record the	Wetland ID dominant species present			
AQUATIC VEGETATION				Rooted subm		ing Free floating	
		Floating	g algae	Attached alga	—	_	
NA NA							
MACROINVER	RTEBRATES	i [

	NA
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-2	Feature NAME Unnamed
LAT 43.356136 LONG -78.583761	DATE 05/12/2021
PROJEC Somerset	CLIENT AES
INVESTIGATORS Drew Timmis, Jess Atutubo	
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW

	-						
		Estimate N			Ctroom Exector		
			/leasurements k Width:ft		Stream ErosionNoneModerate _	Heavv	
		l '					
		Top of Bank	· ·		Artificial, Modified or Chan	nelized	
			<u>in</u> RB <u>i</u>	<u>'n</u> -	Yes✓ No		
WATERBODY FEATURES		· ·	th: 2.50 ft		Dam PresentYes	∕ No	
PEATORES		Water Widtl				_	
İ		High Water	Mark: 3.0 ft	,	Sinuosity Low	Medium High	
		Flow Direct	tion:		Gradient		
					✓ Flat Moderate		
		Motor Bros	4		(0.5/100 ft (2 ft/100 ft) (
İ		Water Pres No water	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	sented by Stream	
I			ped moist		Riffle % Run	%	
		✓ Standing	g water		Pool 100 %		
CHARACTER	ISTICS	Flowing \	water	,	Tbidity		
		Valacity			Turbidity ClearSlightly t	turbid <u>√</u> Turbid	
		Velocity Fast	Moderate		Opaque Stained		
		Slow			Other		
INOR	GANIC SUB	STRATE COI	MPONENTS	OF	ORGANIC SUBSTRATE COMPONENTS		
		add up to 100		(d	oes not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256	mm (10")		Dellilus	plant materials (CPOM)	35	
Cobble	64-256 m	ım (2.5"-10")		Muck-Mud	black, very fine organic	4.5	
Gravel	2-64 mm	า (0.1"-2.5")		IVIUUN IVIUU	(FPOM)	15	
Sand	0.06-2n	mm (gritty)	5		!		
Silt	0.004-0	0.06 mm	50	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)	45				
	_		ant Surrounding Lan		Indicate the dominant type		
			Commercasture Industrial	cial	✓ Trees Shrubs Grasses Herbad	3	
			tural Resident			ceous	
WATERSHED		Other:		ا	Floodplain Width		
FEATURES					Wide > 30ft Moder Narrow <16ft Moder	ate 15-30ft	
		Canopy Co			V Narrow < ron		
		✓ Partly o	· — ·	aded	Wetland PresentYes	No	
		ShadedOpen Wetland ID					
·					lominant species present		
AQUATIC VEGETATION _		Rooted ✓ Floating		Rooted subme Attached algae	<u> </u>	ingFree floating	
		<u>√</u> Floating	j algae	Allauneu aiyae			
Ĭ		NA					
MACROINVER	TEDDATES	,					
OR OTHER	HEDRAILS	'					
WILDLIFE OBSERVED/O	THER						
OBSERVATIO NOTES							
NOILO							

Feature ID OW-3	Feature NAME Unnamed
LAT 43.355473 LONG -78.591601	DATE 05/12/2021
PROJEC Somerset	CLIENT AES
INVESTIGATORS Drew Timmis, Jess Atutubo	
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW

		Estimate Measurements			Stream Erosion	
		·	k Width:ft		NoneModerate	Heavy
		Top of Banl	-		Artificial, Modified or Chan	nelized
			<u>in</u> RB <u>i</u>	<u>n</u>	<u>√</u> YesNo	
WATERBODY FEATURES			h: 3.00 ft		Dam PresentYesv	∕ No
LATORES		Water Widt				_
			Mark: <u>4.0 ft</u>		Sinuosity Low	iviedium High
		Flow Direct	ion:	_	Gradient	_
						Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre Morphology Types	sented by Stream
		Stream b	r, stream bed dry bed moist		Riffle % Run	%
		✓ Standing			Pool 100 %	
CHARACTER	ISTICS	Flowing	water		Turbidity	
		Velocity			Turbidity Clear	
		Fast Moderate				
		Slow		Other		
INOR					PRGANIC SUBSTRATE COMPONENTS	
	(should	add up to 100	·	,	does not necessarily add up	,
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detritus	plant materials (CPOM)	0
Cobble		m (2.5"-10")		Muck-Mud	black, very fine organic	10
Gravel		1 (0.1"-2.5")			(FPOM)	10
Sand		nm (gritty)	10		1 117	
Silt		0.06 mm mm (slick)	70	Marl	grey, shell fragments	
Clay	< 0.004	(/	20 Int Surrounding Lan	duco	Indicate the dominant type	(Chaola ana)
			Commer		Indicate the dominant type Trees Shrub:	S (Cneck one)
		✓ Field/Pa	astureIndustrial		Grasses Herba	
WATERSHED		Agricult	ural Resident	ial	Floodplain Width	
FEATURES		Other:			Wide > 30ft Moder	ate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		Partly open Partly shaded			Wetland PresentYes	No
		Shaded	<u>√</u> Open		Wetland ID	_
					dominant species present	ing Frontlaction
AQUATIC VEGETATION		✓ Rooted emergent —Rooted submergent —Rooted floating —Free floating Floating algae — Attached algae				

	Retention pond with phragmites growing within, culverts directing stream flow in and out
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-4	Feature NAME Unnamed
LAT 43.347328 LONG -78.582536	DATE 05/12/2021
PROJEC Somerset	CLIENT AES
INVESTIGATORS Drew Timmis, Jess Atutubo	
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW

		Estimate Measurements			Stream Erosion	
			k Width:ft		None✓ Moderate	Heavy
					Artificial, Modified or Char	nelized
		LB <u>in</u> RB <u>in</u>			Yes _ <u>✓</u> No	
WATERBODY		Water Dept	h: <u>2.00 ft</u>		Dam PresentYesv	/ No
FEATURES		Water Width: 35.0 π				_
		High Water	Mark: 2.5 ft		Sinuosity Low	Medium High
		Flow Direct	ion:		Gradient	
						Severe (10 ft/100 ft)
		Water Pres	ent		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	•
		Stream b			Riffle % Run 10	%
CHARACTER	ISTICS	✓ Standing Flowing			Pool 90 %	
CHARACTER	131103	Flowing	water		Turbidity	,
		Velocity			Clear Slightly	turbid <u>✓</u> Turbid
		Fast . ✓ Slow	Moderate		OpaqueStainedOther	
INOR	CANIC SUB	STRATE CO	MDONENTS		RGANIC SUBSTRATE CON	IDONENTS
INOR		add up to 100	-		does not necessarily add u	-
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Delilius	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	10
Gravel	2-64 mm	1 (0.1"-2.5")		Widok Wida	(FPOM)	10
Sand		nm (gritty)				
Silt		0.06 mm	60	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40			
		Predomina ✓ Forest	int Surrounding Lan Commer	i duse cial	Indicate the dominant type ✓ Trees Shrub	
		Field/Pa	astureIndustrial		Grasses Herbaceous	
WATERSHED		Agricult	ural Resident		Floodplain Width	
FEATURES		Other:			Wide > 30ft Moderate 15-30ft	
		Canopy Cover			✓ Narrow <16ft	
		Partly o		aded	Wetland PresentYes	No
		Shaded	Open		Wetland ID	
			, , , , , , , , , , , , , , , , , , ,		Iominant species present	ing Froe fleeting
AQUATIC VEGETATION		✓ Rooted emergent — Rooted submergent — Rooted floating — Free floating Floating algae — Attached algae			rree libating	

	Phragmites. Blown out drainage ditch located in forested area, stream running along eastern side into agriculture area
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-5	Feature NAME Unnamed		
LAT 43.351626 LONG -78.597285	DATE 05/13/2021		
PROJEC Somerset	CLIENT AES		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW		

		•	•			
Γ		Estimate Measurements		Stream Erosion		
			k Width:ft		NoneModerate	Heavy
		Top of Bank Height:		Artificial, Modified or Char	nelized	
		1		✓ Yes No	illelizea	
WATERBODY		Water Depth: 3.00 ft			. Na	
FEATURES		Water Width: 125.(ft			Dam PresentYes	<u>/ No</u>
		High Water	Mark: <u>4.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	ion:		Gradient	
					✓ FlatModerate (2 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle % Run	%
		Stream of			Pool 100 %	70
CHARACTER	RISTICS	Flowing			100	
					Turbidity	turbid <u>✓</u> Turbid
		Velocity Fast	Moderate		ClearSlightly OpaqueStained	turbia <u>+</u> Furbia
		Slow	Moderate		— Opaque — Starried — Other	
INOR	CANIC SLIB			RGANIC SUBSTRATE COM	IDONENTS	
INON		add up to 100		(does not necessarily add up to 100%)		
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			· · ·	5	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	
Cobble	64-256 m	m (2.5"-10")		Marala Maral	black, very fine organic	
Gravel	2-64 mm	ı (0.1"-2.5")		Muck-Mud	(FPOM)	
Sand	0.06-2r	nm (gritty)				
Silt	0.004-0	0.06 mm	60	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40			
			nt Surrounding Lan	duse	Indicate the dominant type	
		Forest	Commer	cial	Trees Shrub Grasses Herba	S
			ural Resident		GrassesTrierba	ceous
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moderate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft	
		Partly o	· — ·	aded	Wetland PresentYes	No
		ShadedOpen			Wetland ID	
					dominant species present	
AQUATIC VEGETATION		✓ Rooted		Rooted subm		ingFree floating
		Floating	g algae	Attached alga	le	
	Phragmites. Man made retention pond located adjacent to railroad. Limited access					

	Phragmites. Man made retention pond located adjacent to railroad. Limited access
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-6	Feature NAME Unnamed		
LAT 43.355334 LONG -78.596323	DATE 05/13/2021		
PROJEC Somerset	CLIENT AES		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW		

			leasurements		Stream Erosion	
		·	k Width:ft		NoneModerate	Heavy
		Top of Banl	_		Artificial, Modified or Char	nnelized
		LB <u>in</u> RB <u>in</u>			<u>√</u> YesNo	
WATERBODY		Water Depth: 2.00 ft			Dam PresentYes	/ No
FEATURES		Water Width: 40.0 π				_
		High Water	Mark: <u>4.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	ion:		Gradient	
					<u>✓</u> FlatModerate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	esented by Stream
		Stream b	r, stream bed dry		Morphology Types Riffle % Run	%
		✓ Standing			Pool 100 %	
CHARACTER	ISTICS	Flowing			Toubidie.	
		Velocity			Turbidity ClearSlightly	turbid <u>✓</u> Turbid
			Moderate		OpaqueStained	
		Slow	Slow		Other	
INOR		STRATE CO	-	_	RGANIC SUBSTRATE CON	-
	(should a	add up to 100	,	,	does not necessarily add u	. ,
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detritus	plant materials (CPOM)	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")			(FPOM)	
Sand		nm (gritty)				
Silt		0.06 mm	60	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40			
			int Surrounding Lan Commer		Indicate the dominant type Trees Shrub	(Check one)
		Field/Pa	asture 🗸 Industrial	0.0.	GrassesHerba	
MATEROLIER		Agricult	ural Resident		_	
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moderate 15-30ft	
		Canopy Cover			✓ Narrow <16ft	
		Partly openPartly shaded		aded	ded Wetland PresentYesNo	
		Shaded	✓ Open		Wetland ID	
			e dominant type and	d record the o	dominant species present	
AQUATIC VEGETATION		✓ Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae				
				uoriou aiga		

	Man made pool located at the end of a culvert leading under an access road. Phragmites and shrub cover
MACROINVERTEBRATES OR OTHER	
WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-7	Feature NAME Unnamed		
LAT 43.352118 LONG -78.606016	DATE 05/13/2021		
PROJEC Somerset	CLIENT AES		
INVESTIGATORS Drew Timmis, Jess Atutubo			
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW		

					Stream Erosion	
		Top of Ban	k Width:ft		NoneModerate	Heavy
		Top of Bank Height:			Artificial, Modified or Char	nelized
		LB <u>in</u> RB <u>in</u>			<u>√</u> YesNo	
WATERBODY		Water Depth: 3.00 ft		Dam PresentYes	/ No	
FEATURES		vvater vvidth: 85.0 It				
		High Water	Mark: <u>5.0</u> ft		Sinuosity Low	Medium High
		Flow Direct	ion:		Gradient	
					<u>✓</u> FlatModerate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
		Stream b	r, stream bed dry bed moist		Morphology Types Riffle % Run	%
		✓ Standing	g water		Pool 100 %	
CHARACTER	ISTICS	Flowing	water		Turbidity	
		Velocity			ClearSlightly	turbid <u></u> ✓_Turbid
		Fast Moderate			OpaqueStained	
		Slow		Г	Other	
INOR		STRATE CO		_	RGANIC SUBSTRATE COM does not necessarily add u	
Substrate	(Siloulu	add up to Tot	% Composition in	Substrate		,
Type	Diame	ter	Sampling Reach	Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detilitus	plant materials (CPOM)	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")			(FPOM)	
Sand		nm (gritty)			1 116	
Silt		0.06 mm	60	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40 ant Surrounding Lan	duco	Indicate the dominant type	(Chaok ana)
		Forest	Commer	cial	Trees Shrub Grasses Herba	s (Check one)
		Field/Pa	asture 🔽 Industrial		Grasses	ceous
WATERSHED		— Agricult	ural Resident	tial	Floodplain Width	
FEATURES		Other:			Wide > 30ft Moderate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft	
		Partly openPartly shaded		aded	Wetland PresentYesNo	
Sh		snaded	✓ Open		Wetland ID	
					dominant species present	inn Face Beef
AQUATIC VEGETATION		Rooted emergentRooted subm Floating algae Attached alga		ergentRooted float	ingFree floating	
				aorroa arga		
		1				

	Man made retention pond located near railroad and access road. artificial liner observed
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	

Feature ID OW-8	Feature NAME Unnamed				
LAT 43.352772 LONG -78.60534	DATE 05/13/2021				
PROJEC Somerset	CLIENT AES				
INVESTIGATORS Drew Timmis, Jess Atutubo					
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW NRPW				

WATERBODY FEATURES		Estimate Measurements			Stream Erosion		
		Top of Bank Width:ft			NoneModerate	Heavy	
		Top of Ban	•		Artificial, Modified or Channelized		
		LB <u>in</u> RB <u>in</u>			<u>√</u> YesNo		
		Water Depth: 3.00 ft			Dam PresentYes	/ No	
		Water Width: 134.(ft					
		High Water Mark: 7.0 ft			Sinuosity Low	Medium High	
		Flow Direction:			Gradient		
					<u>✓</u> Flat Moderate (2 ft/100 ft)		
		Water Present			Proportion of Reach Represented by Stream Morphology Types		
		No water, stream bed dry Stream bed moist			Riffle % Run	%	
		✓ Standing water			Pool 100 %		
CHARACTER	ISTICS	Flowing water			Turbidity		
		Velocity			Turbidity ClearSlightly turbidTurbid		
		Fast Moderate Slow			Opaque Stained Other		
INOR		STRATE CO		_	RGANIC SUBSTRATE CON		
Cubatrata	(snoula a	add up to 100		,	does not necessarily add u	. ,	
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256 mm (10")			Detitios	plant materials (CPOM)		
Cobble	64-256 mm (2.5"-10")			- Muck-Mud	black, very fine organic		
Gravel		1 (0.1"-2.5")			(FPOM)		
Sand		nm (gritty)					
Silt		0.06 mm	60	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)	40			(0)	
		Predominant Surrounding Landuse Forest Commercial			Indicate the dominant type Trees Shrub	S (Check one)	
		Field/Pasture Industrial			Grasses Herbaceous		
WATERSHED		Agricultural Residential Other:			Floodplain Width		
FEATURES					Wide > 30ft Moderate 15-30ft		
		Canopy Cover			✓ Narrow <16ft		
		Partly open Partly shaded Shaded ✓ Open			Wetland PresentYesNo Wetland ID		
							AQUATIC VEGETATION
Rooted emergent Rooted submergent Noted floating Free floating Floating algae Attached algae							
					-		

	Man made retention pond located near railroad and access road. artificial liner observed
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph 1 – Wetland WA-1 Facing west southwest. [Taken by Jessica Atutubo on May 3, 2021]



Photograph 2 – Wetland WA-2
View of wetland on fringe of Fish Creek. Facing east southeast.
[Taken by Jessica Atutubo on May 5, 2021]



Photograph 3 – Wetland WA-3 Facing west northwest. [Taken by Jessica Atutubo on May 3, 2021]



Photograph 4 – Wetland WA-4 [Taken by Drew Timmis on May 4, 2021]



Photograph 5 – Wetland WA-5 Facing southwest. [Taken by Jessica Atutubo on May 5, 2021]



Photograph 6 – Wetland WA-6 Facing northwest. [Taken by Jessica Atutubo on May 10, 2021]



Photograph 7 – Wetland WA-7
Showing cover type change from wet meadow to shrub. Facing northeast.
[Taken by Jessica Atutubo on May 10, 2021]



Photograph 8 – Wetland WA-8
Facing north northwest.

[Taken by Jessica Atutubo on May 11, 2021]



Photograph 9 – Wetland WA-9
Facing south.
[Taken by Jessica Atutubo on May 11, 2021]



Photograph 10 – Wetland WA-10 Facing northeast. [Taken by Jessica Atutubo on May 12, 2021]



Photograph 11 – Wetland WA-11
Facing northeast.
[Taken by Jessica Atutubo on May 12, 2021]



Photograph 12 – Wetland WA-12 Facing north. [Taken by Jessica Atutubo on May 13, 2021]



Photograph 13 – Wetland WB-1 Facing west. [Taken by Tony Cimpi on May 3, 2021]



Photograph 14 – Wetland WB-2 Facing south. [Taken by Tony Cimpi on May 3, 2021]



Photograph 15 – Wetland WB-3 Facing north. [Taken by Tony Cimpi on May 3, 2021]



Photograph 16 – Wetland WB-4 Facing south. [Taken by Tony Cimpi on May 3, 2021]



Photograph 17 – Wetland WB-5 Facing north. [Taken by Tony Cimpi on May 3, 2021]



Photograph 18 – Wetland WB-6 Facing west. [Taken by Tony Cimpi on May 3, 2021]



Photograph 19 – Wetland WB-7 Facing west. [Taken by Tony Cimpi on May 3, 2021]



Photograph 20 – Wetland WB-8 Facing north. [Taken by Tony Cimpi on May 3, 2021]



Photograph 22 – Wetland WB-10 [Taken by Tony Cimpi on May 4, 2021]



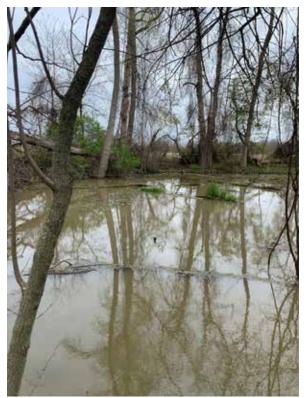
Photograph 23 – Wetland WB-11 [Taken by Tony Cimpi on May 4, 2021]



Photograph 24 – Wetland WB-12 [Taken by Tony Cimpi on May 4, 2021]



Photograph 25 – Wetland WB-13 [Taken by Tony Cimpi on May 5, 2021]



Photograph 26 – Wetland WB-14 [Taken by Tony Cimpi on May 5, 2021]



Photograph 27 – Wetland WB-15 [Taken by Tony Cimpi on May 5, 2021]



Photograph 28 – Wetland WB-16 [Taken by Tony Cimpi on May 6, 2021]



Photograph 29 – Wetland WB-17 [Taken by Tony Cimpi on May 6, 2021]



Photograph 30 – Wetland WB-18 [Taken by Tony Cimpi on May 6, 2021]



Photograph 31 – Wetland WB-19 [Taken by Tony Cimpi on May 10, 2021]



Photograph 32 – Wetland WB-20 [Taken by Tony Cimpi on May 11, 2021]



Photograph 33 – Wetland WB-21 [Taken by Tony Cimpi on May 11, 2021]



Photograph 34 – Wetland WB-22 [Taken by Tony Cimpi on May 12, 2021]



Photograph 35 – Wetland WB-23 [Taken by Tony Cimpi on May 12, 2021]



Photograph 36 – Wetland WB-24 [Taken by Tony Cimpi on May 12, 2021]



Photograph 37 – Wetland WB-25 [Taken by Tony Cimpi on May 12, 2021]



Photograph 38 – Wetland WB-26 [Taken by Tony Cimpi on May 13, 2021]



Photograph 39 – Stream SA-1 [Taken by Drew Timmis on May 3, 2021]



Photograph 40 – Stream SA-2
Showing eastern portion of Fish Creek in the main parcel. Facing north.
[Taken by Jessica Atutubo on May 4, 2021]



Photograph 41 – Stream SA-3 [Taken by Drew Timmis on May 4, 2021]



Photograph 42 – Stream SA-4
Facing north northwest.
[Taken by Jessica Atutubo on May 4, 2021]



Photograph 43 – Stream SA-5 Facing southwest. [Taken by Jessica Atutubo on May 6, 2021]



Photograph 44 – Stream SA-6 Facing south. [Taken by Jessica Atutubo on May 6, 2021]



Photograph 45 – Stream SA-7
Showing stream connecting to forested wetland (WA-12) in background. Facing east.
[Taken by Drew Timmis on May 6, 2021]



Photograph 46 – Stream SA-8
Showing feature on left side of photo along railroad tracks. Facing east.
[Taken by Jessica Atutubo on May 10, 2021]



Photograph 47 – Stream SA-9
Facing northwest.
[Taken by Jessica Atutubo on May 11, 2021]



Photograph 48 – Stream SA-10 [Taken by Drew Timmis on May 12, 2021]



Photograph 49 – Stream SA-11
Facing west northwest
[Taken by Jessica Atutubo on May 12, 2021]



Photograph 50 – Stream SA-12 Facing north. [Taken by Jessica Atutubo on May 12, 2021]



Photograph 51 – Stream SA-13
Facing east southeast.
[Taken by Jessica Atutubo on May 12, 2021]



Photograph 52 – Stream SA-14 [Taken by Drew Timmis on May 12, 2021]



Photograph 53 – Stream SA-15 Showing *Phragmites* on banks stream. [Taken by Drew Timmis on May 12, 2021]



Photograph 54 – Stream SA-16 [Taken by Drew Timmis on May 13, 2021]



Photograph 55 – Stream SA-17 [Taken by Drew Timmis on May 12, 2021]



Photograph 56 – Stream SA-18 [Taken by Drew Timmis on May 13, 2021]



Photograph 59 – Stream SB-1 Showing downstream view. [Taken by Tony Cimpi on May 3, 2021]



Photograph 60 – Stream SB-2 [Taken by Tony Cimpi on May 5, 2021]



Photograph 61 – Stream SB-3
View of central portion of Fish Creek within main parcel.
[Taken by Tony Cimpi on May 12, 2021]



Photograph 62 – Stream SB-4 [Taken by Tony Cimpi on May 12, 2021]



Photograph 63 – Pond OW-1

Facing north.

[Taken by Jessica Atutubo on May 12, 2021]



Photograph 64 – Pond OW-2 Facing east. [Taken by Jessica Atutubo on May 12, 2021]



Facing west southwest

[Taken by Jessica Atutubo on May 12, 2021]



Photograph 66 – Pond OW-4 [Taken by Drew Timmis on May 13, 2021]



December 9, 2021

Joshua Baird AES Clean Energy Development, LLC 195 Montague Street, Suite 1461 Brooklyn, New York 11201

SUBJECT: Wetlands Delineation Memorandum – Updated Site Boundary Investigation Somerset Solar Project, Niagara County, New York

Dear Mr. Baird:

This letter presents the findings of the wetland delineation done for the updated Site Boundary completed on November 22, 2021 to review the boundaries any wetlands or waterbodies within the area.

Tetra Tech representative Drew Timmis conducted the field investigation of the approximately 3.24-acre addition to the Site Boundary (Project Area). The area consisted of successional old field that was previously a sediment and material storage area (Appendix A, Figure 1).

Methodology:

Wetlands were delineated using the method described in the USACE 1987 Manual (USACE 1987, along with the Northcentral Northeast Regional Supplement (Version 2.0). Wetlands were also delineated consistent with the 2015 Clean Water Rule. The wetland boundaries were delineated using the routine onsite determination method described in the Regional Supplement and the National Wetland Plant List 2018 (NWPL) for the determination of the plant indicator status and the Classification of Wetlands and Deepwater Habitats of the United States to classify wetlands. According to the USACE 1987 Wetland Manual, three criteria or parameters are considered during wetland delineations; for an area to be considered a wetland, it must have:

- A predominance of hydrophytic vegetation,
- Indications of wetland hydrology, and
- The presence of hydric soils under normal circumstances (i.e., where naturally problematic conditions or disturbances are absent).

Wetland datasheets were completed at sample points within each wetland community type (i.e., Cowardin classification) making up the wetland or wetland complex, along with a minimum of one corresponding upland community sample point. Wetland datasheets are included in Appendix B. Representative photographs of on-site wetlands are included in Appendix C.

Results:

Tetra Tech identified one palustrine emergent (PEM) wetland (0.22 acres) and a palustrine unconsolidated bottom (PUB), man-made retention pond (0.25 acres) within the extended Site Boundary (Appendix A, Figure 1). Data sheets can be found in Appendix B, and photographs are provided in Appendix C. Table 1 summarizes the delineated wetlands and brief descriptions are provided below.

Table 1
Summary Metrics of Waterbodies and Wetlands on the updated Site Boundary of the Somerset Solar
Project

		Centroid (Wetland)	Area	
Wetland or	Cowardin Class	Coord	within	
Waterbody				Site
Name		Latitude (DD) °N	Longitude	Bound
Name			(DD) °W	ary
		, ,	(00) **	(acres)
WA-200	PEM	43.34757	-76.61212	0.22
OW-200	PUB	43.35772	-78.59629	0.25

Wetland WA-200:

Wetland WA-200 was 0.72 acre in size (0.22 acre within Site Boundary), located in the central portion of the Project Area and extends off to the north within a drainage ditch that extends Lake Ontario. The source of wetland hydrology was primarily from surface runoff. Dominant vegetation included common reed (*Phragmites australis*). Hydric soil conditions met the requirements of a depleted matrix starting at 0 inches and continued for 20 inches. This wetland was classified as USACE-jurisdictional due to having a hydrological connection to a WOTUS, an unnamed tributary to Lake Ontario.

Waterbody OW-200:

Waterbody OW-200 was a 0.25-acre man-made retention pond located in the central portion of the Project Area. At the time of delineation, the surface water depth was approximately 4 feet; with some common reed was observed along the edges of the pond. This pond was connected to wetland WA-200 through a riprap stone path, though the path has overgrowth of shrub and herbaceous species. There is potential hydrologic connection to a WOTUS and therefore it would be eligible for USACE jurisdiction.

If you have any questions or need additional information, please do not hesitate to contact me at (518) 356-6061 or via email at drew.timmis@tetratech.com.

Sincerely,

Somerset Solar Additional Wetland Delineation Page 3

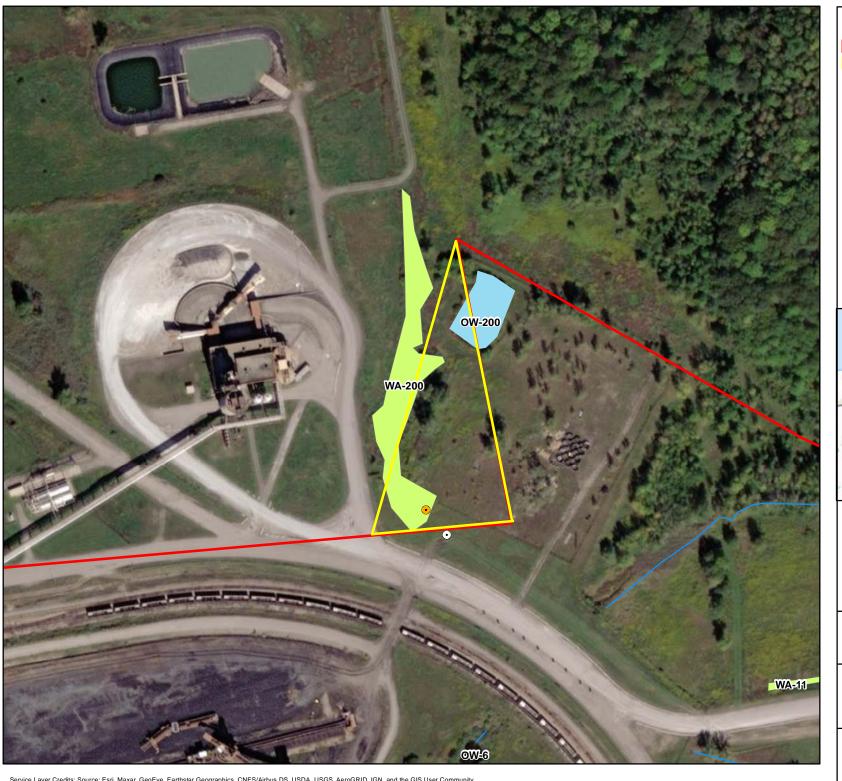
Drew Timmis Biologist

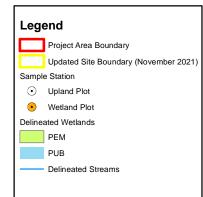
cc:

- J. Hunt (Tetra Tech)
- D. Lent (Tetra Tech)
- T. Cimpi (Tetra Tech)

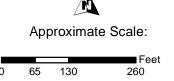


Appendix A Figure 1









TETRA TECH

12/09/2021

Date:

Delineated Aquatic Features - Updated Boundary

> Somerset Solar 7725 Lake Road Barker, New York

Appendix B **Datasheets**

Feature ID	Feature NAME
LAT LONG	DATE
PROJECT NAME	CLIENT
INVESTIGATORS	
FLOW REGIME	WATER TYPE
Perennial Intermittent Ephemeral	TNW RPW NRPW

		Estimate Measurements				Stream Erosio				
		Top of Bank Width:				None	Moderate	Heavy		
		Top of Banl	ŭ			Artificial, Mod	lified or Cha	nnelized		
		LB	_ RB		_	Yes	No			
WATERBODY		Water Dept	h:			Dam Present	Yes	No		
FEATURES		Water Widt	h:			Dain Fresent	162	INO		
		High Water	Mark:			Sinuosity	Low	Medium	High	
		Flow Direct	ion:		_	Gradient				
						Flat	Moderate	Severe		
		W . D				(0.5/100 ft	(2 ft/100 ft)	(10 ft/100 ft)		
		Water Pres	s ent r, stream bed dry	,		Proportion of Morphology T		esented by	Stream	
			ped moist							
		Standing	,			Pool	%			
CHARACTER	ISTICS	Flowing	water			Turbidity				
		Velocity				Clear	Slightly	turbid	Turbid	
		Fast Moderate				Opaque Stained			t	
		Slow			Other					
INORGANIC SUBSTRATE C			-		_	PRGANIC SUBSTRATE COMPONENTS does not necessarily add up to 100%)				
(should add up to 100%) Substrate			% Composition	on in	Substrate	UDES HOT HECE	ssariiy add u		position in	
Type	Diame	eter Sampling Reach		_	Type	Characte	Characteristic		ing Area	
Bedrock					Dateitus	sticks, wo	ood, coarse			
Boulder	> 256	mm (10")			Detritus	plant mate	rials (CPOM)			
Cobble	64-256 m	m (2.5"-10")			Muck-Mud black, very fine organic (FPOM)		fine organic			
Gravel	2-64 mm	n (0.1"-2.5")					POM)			
Sand	0.06-2r	nm (gritty)								
Silt		0.06 mm			Marl	grey, shell fragments				
Clay	< 0.004	mm (slick)								
		Predomina Forest	nt Surrounding	g Lan mmer		Indicate the d Trees	ominant type Shrub		ne)	
		Field/Pa		ustrial		Grasses		aceous		
		Agricult	ural Res	sident	ial					
WATERSHED FEATURES		Other:				Floodplain Wi Wide > 30f		rate 15-30f	t	
		Canopy Co	wor			Narrow <1		10 001	•	
		Partly o		tly sha	aded					
		Shaded Open		Wetland Present Wetland ID		ent Yes	No			
		Indicate th	e dominant typ	e and	I record the o		ies present			
AQUATIC VEGETATION		Rooted emergent			Rooted submergent Rooted floating Free floati				ee floating	
		Floating algae			Attached algae					
		•								
		1								

|--|--|

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar		C	ity/County: So	merset/Niagara		Sampling Date:	11/22/21	
Applicant/Owner: AES					State:	NY Sampling	Point: UA200	
Investigator(s): Drew Timmis		Se	ection, Townsh	ip, Range:				
Landform (hillside, terrace, etc.): terrace	Loca	al relief (conca	ve, convex, none): convex	Slo	pe (%): 0-2	
Subregion (LRR or MLRA): LF	RR L Lat:	: 43.35652729		Long: -78.59	064971	 Datu	m: WGS 84	
Soil Map Unit Name: Collamer	_			3	NWI classific			
Are climatic / hydrologic conditi			Voc	X No				
· -		-	_	Are "Normal Circu	_		V No	
	, or Hydrology				•	-	X No	
Are Vegetation, Soil, SOIL, SUMMARY OF FINDING		<u>.</u>		If needed, explaint locations,	-		ures, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No X	Is the Samp	alad Araa				
Hydric Soil Present?	Yes	No X	within a We		Yes	No X		
Wetland Hydrology Present?	Yes	No X		nal Wetland Site		<u> </u>		
HYDROLOGY								
Wetland Hydrology Indicato				<u>s</u>	-	tors (minimum of	two required)	
Primary Indicators (minimum	of one is required; check		(DO)		Surface Soil	` '		
Surface Water (A1)		_Water-Stained Lea	` '		Drainage Par			
High Water Table (A2) Saturation (A3)		_Aquatic Fauna (B1 Marl Deposits (B1		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Water Marks (B1)		_ Hydrogen Sulfide		Crayfish Burrows (C8)				
Sediment Deposits (B2)		Oxidized Rhizosph		Roots (C3)		sible on Aerial Im	nagery (C9)	
Drift Deposits (B3)		Presence of Redu	-					
Algal Mat or Crust (B4)		_	, ,	Iron (C4) Stunted or Stressed Plants (D1) in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5)		Thin Muck Surface			Shallow Aquitard (D3)			
Inundation Visible on Aeri	ial Imagery (B7)	Other (Explain in F				phic Relief (D4)		
Sparsely Vegetated Cond		- ` `			FAC-Neutral	Test (D5)		
Field Observations:								
Surface Water Present?	Yes No X	Depth (inches):						
Water Table Present?	Yes No X Yes No X							
Saturation Present?	Yes No X	Depth (inches):		Wetland Hydro	ology Present?	Yes	NoX	
(includes capillary fringe)								
Describe Recorded Data (stre	am gauge, monitoring w	ell, aerial photos, p	revious inspec	tions), if available	e:			
Remarks:								

VEGETATION – Use scientific names of plants. Sampling Point: **UA200** Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. 0 (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 10 2. FAC species x 3 = 3. FACU species 25 x 4 = 30 4. UPL species x 5 = 150 Column Totals: 75 (A) 300 (B) Prevalence Index = B/A = 4.00 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 2 - Dominance Test is >50% Daucus carota 10 **UPL** 3 - Prevalence Index is ≤3.0¹ No Trifolium campestre 20 UPL 4 - Morphological Adaptations (Provide supporting 2. Yes data in Remarks or on a separate sheet) 10 Bromus ciliatus No **FACW** 3. Problematic Hydrophytic Vegetation¹ (Explain) Apocynum cannabinum FAC 25 **FACU** 5. Poa pratensis Yes ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 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 75 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No X Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) several cover types observed but all connected by surficial drainage and channels. Areas more dominated by dogwoods in southeastern area, western portions are dominated by reed canary grass (Phalaris arundinacea), and forested area sparesly vegetated by emergent and mainly tree species.

SOIL Sampling Point: UA200

Profile Description: (Describe to the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document the indicator or confined between the depth needed to document					firm the absence of indicators.)					
Depth	Matrix	0/		x Feature %		Loc ²	Toytura	Remarks		
(inches)	Color (moist)	<u>%</u>	Color (moist)	70	Type ¹	LOC	Texture	Remarks	-	
0-12	10YR 4/3	100					Loamy/Clayey			
12-16	10YR 5/3	100					Loamy/Clayey	restrictive layer		
	·									
	- <u></u>									
			_							
			_							
	·									
¹ Type: C-	=Concentration, D=Dep	letion RM	-Reduced Matrix CS	S-Covere	ad or Coat	ed Sand (Grains ² Loca	tion: PL=Pore Lining, M=Mat	riv	
	oil Indicators:	netion, Kivi	=Reduced Matrix, CC	=Covere	eu or Coat	eu Sanu v		Problematic Hydric Soils ³ :	IIIA.	
-	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	RR,		(A10) (LRR K, L, MLRA 149	9B)	
	Epipedon (A2)	-	MLRA 149B)		` , `	,	•	rie Redox (A16) (LRR K, L, R		
	Histic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR							
	ogen Sulfide (A4)	-	High Chroma Sa				Polyvalue Below Surface (S8) (LRR K, L)			
	fied Layers (A5)	-	Loamy Mucky M			-	Thin Dark Surface (S9) (LRR K, L)			
	eted Below Dark Surfac	e (A11)	Loamy Gleyed M			, ,	Iron-Manganese Masses (F12) (LRR K, L, R)			
	Dark Surface (A12)		Depleted Matrix (F3) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (M							
	y Mucky Mineral (S1)	-	Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A,							
	ly Gleyed Matrix (S4)	-	Depleted Dark Surface (F7) Red Parent Material (F21)						1430)	
	y Redox (S5)	-	Redox Depressi		')		Very Shallow Dark Surface (TF12)			
	• • •	-					Other (Explain in Remarks)			
	oed Matrix (S6)	-	Marl (F10) (LRR K, L)Other (Explain in Remarks)							
Dark	Surface (S7)									
³ Indicators	s of hydrophytic vegeta	tion and we	etland hydrology mus	t be pres	sent, unles	s disturbe	ed or problematic.			
Restrictiv	e Layer (if observed)	:								
Type: s	stone/gravel									
Depth (i	inches):	16					Hydric Soil Pres	ent? Yes No	<u> </u>	
Remarks:										
			-	Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Field	I Indicators of Hydric Soils ver	rsion 8.1	
2018 Erra	ta. (http://soils.usda.go	v/use/hydri	C)							

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Somerset Solar	City/County: Somerset/Niaga	ra Sampling Date: 11/22/21				
Applicant/Owner: AES		State: NY Sampling Point: WA200				
Investigator(s): Drew Timmis	Section, Township, Range:					
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, no	one): Concave Slope (%): 0-2				
Subregion (LRR or MLRA): LRR L Lat: 43.	•					
Soil Map Unit Name: Hilton silt loam, 0 to 3 percent slopes		NWI classification:				
·	time of year? Year V. No.					
Are climatic / hydrologic conditions on the site typical for this		(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	_	circumstances" present? Yes X No No				
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If needed, exp	plain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map s	howing sampling point location	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area					
	No within a Wetland?	Yes X No				
	No If yes, optional Wetland S					
Remarks: (Explain alternative procedures here or in a sep	arate report.)					
emergent depressional area dominated by phragmites and	extends into drainage ditch that runs north	1				
HYDROLOGY						
		O consider the diseason (minimum of two required)				
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all t	act captul	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all t X Surface Water (A1) Wa	ter-Stained Leaves (B9)	Surface Soil Cracks (B6) X Drainage Patterns (B10)				
	uatic Fauna (B13)					
	rl Deposits (B15)					
	drogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
	dized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
l —	sence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
l 	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)				
 -	n Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Oth	er (Explain in Remarks)	X Microtopographic Relief (D4)				
X Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes X No C Water Table Present? Yes No X C	epth (inches): 2					
Water Table Present? Yes No X D	epth (inches):					
Saturation Fresent? Fes X No L	epth (inches): 5 Wetland Hy	vdrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if availa	able:				
Remarks:						
Normaliko.						

VEGETATION – Use scientific names of plants. Sampling Point: WA200 Absolute Dominant Indicator Tree Stratum (Plot size: 30) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15) OBL species x 1 = **FACW** species x 2 = 0 0 2. FAC species x 3 = 3. FACU species 0 x 4 = 0 4. UPL species x 5 = 0 Column Totals: 94 (A) 188 (B) Prevalence Index = B/A = 2.00 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phragmites australis 94 **FACW** X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree – Woody plants 3 in. (7.6 cm) or more in 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 94 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30) Woody vines - All woody vines greater than 3.28 ft in height. 2. Hydrophytic Vegetation Yes X No___ Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Drainage ditch area dominated by phragmites

SOIL Sampling Point: WA200

Profile Description: (Describe to the depth needed to document the indicator or confined by the Depth Matrix Redox Features					irm the absence o	of indicators.)				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-15	10YR 4/1	70	10YR 5/6	30	C		Loamy/Clayey	- Tomano		
15-20	10YR 4/2	60	10YR 5/6	30			Loamy/Clayey	Prominent redox concentrations		
	10YR 2/1	10								
	=Concentration, D=Dep	letion, RN	M=Reduced Matrix, CS	S=Covere	ed or Coat	ed Sand (cation: PL=Pore Lining, M=Matrix.		
-	oil Indicators:		Daharahaa Dalaa	0((00) (I DI			or Problematic Hydric Soils ³ :		
	sol (A1)		Polyvalue Below	Surface	(S8) (LRI	ĸκ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
	Epipedon (A2)		MLRA 149B)	(00) (rairie Redox (A16) (LRR K, L, R)		
	Histic (A3)		Thin Dark Surface							
	ogen Sulfide (A4)		High Chroma Sa			-		Polyvalue Below Surface (S8) (LRR K, L)		
	fied Layers (A5)		Loamy Mucky M	lineral (F	1) (LRR K	., L)	Thin Dark Surface (S9) (LRR K, L)			
Deple	eted Below Dark Surfac	e (A11)	Loamy Gleyed N	/latrix (F2	2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick	Dark Surface (A12)		X Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sand	y Mucky Mineral (S1)		Redox Dark Surface (F6)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sand	y Gleyed Matrix (S4)		Depleted Dark Surface (F7)				Red Parent Material (F21)			
Sand	y Redox (S5)		Redox Depressions (F8)				Very Shallow Dark Surface (TF12)			
Stripp	oed Matrix (S6)		Marl (F10) (LRR K, L)				Other (Explain in Remarks)			
	Surface (S7)			,						
3, ,, ,										
	s of hydrophytic vegetat ve Layer (if observed):		vetland hydrology mus	t be pres	ent, unles	s disturbe	ed or problematic.			
Type:	re Layer (ii observed).									
Depth (i	inches):						Hydric Soil Pro	esent? Yes X No No		
Remarks:										
				Suppleme	ent Versio	n 2.0 to re	eflect the NRCS Fi	eld Indicators of Hydric Soils version 8.1		
2018 Erra	ıta. (http://soils.usda.go	//use/hyd	ric)							

Appendix C Photolog



Photograph 1 – Wetland WA-200
Facing west, emergent wetland continues to the north along drainage ditch.
[Taken by Drew Timmis on November 22, 2021]



Photograph 2 – Pond OW-200
View of manmade retention pond facing northeast.
[Taken by Drew Timmis on November 22, 2021]