

Appendix 14-1

**Wetland and Stream Delineation Report**



## **WETLAND AND STREAM DELINEATION REPORT RIVERSIDE SOLAR PROJECT**

**Towns of Lyme and Brownville,  
Jefferson County, New York**

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## Table of Contents

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Project Description and Purpose.....	1
1.2	Report Purpose.....	1
<b>2.0</b>	<b>REGULATORY AUTHORITY.....</b>	<b>2</b>
2.1	United States Army Corps of Engineers.....	2
2.2	New York State Department of Environmental Conservation.....	4
<b>3.0</b>	<b>PROJECT AREA CHARACTERISTICS.....</b>	<b>5</b>
3.1	Resources.....	5
3.2	Vegetation and Ecological Communities.....	5
3.3	Hydrology.....	7
3.3.1	Hydrologic Mapping.....	7
3.3.2	Hydrologic Character.....	8
3.3.3	FEMA Flood Zone Mapping.....	8
3.4	Federal and State Mapped Wetlands and Streams.....	8
3.5	Topography and Soil Characteristics.....	10
3.5.1	Topography.....	10
3.5.2	Site Soils.....	10
<b>4.0</b>	<b>DELINEATION METHODOLOGY.....</b>	<b>13</b>
4.1	Hydrology.....	13
4.2	Vegetation.....	13
4.3	Soils.....	15
4.4	Streams.....	15
<b>5.0</b>	<b>RESULTS.....</b>	<b>17</b>
5.1	General Overview.....	17
5.2	Delineated Wetlands.....	17
5.3	Delineated Streams.....	21
<b>6.0</b>	<b>CONCLUSIONS.....</b>	<b>23</b>
<b>7.0</b>	<b>REFERENCES.....</b>	<b>24</b>

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## **TABLES**

Table 1. NYSDEC-Mapped Streams within the Project Area.....	10
Table 2. Mapped Soils within the Survey Area .....	11
Table 3. Delineated Wetlands within the Survey Area .....	19
Table 4. Delineated Streams within the Project Area.....	22

## **APPENDICES**

### **Appendix A – Figures**

- Figure 1. Site Location Map
- Figure 2. Soils Map
- Figure 3. Federal & State Mapped Resources
- Figure 4. Delineated Resources
- Figure 5. Delineated Resources by Presumed Jurisdictional Status

### **Appendix B – Photograph Log**

### **Appendix C – Data Forms**

- USACE Routine Wetland Determination Forms
- TRC's Stream Inventory Data Forms

## **1.0 INTRODUCTION**

### **1.1 Project Description and Purpose**

Riverside Solar, LLC (Riverside Solar), a subsidiary of AES Corporation (AES), proposes the construction of an approximately 100-megawatt (MW) photovoltaic (PV) solar energy generation facility (Facility) called the Riverside Solar Project (Project) in the Towns of Lyme and Brownville, Jefferson County, New York. The Project will be developed on approximately 1,000 acres of leased, private land owned by a number of participating landowners (Project Area) (see Figure 1). The Project Area consists of nine parcels located east of the Village of Chaumont, as well as one additional parcel located approximately seven miles east-northeast of Chaumont. Riverside Solar contracted with TRC Environmental Corporation (TRC) to delineate the boundaries of wetlands and aquatic features within this Project Area (the Survey Area).

### **1.2 Report Purpose**

TRC conducted a wetland and stream delineation of the Project Area on behalf of Riverside Solar from June 1 to June 5, September 23, and December 17, 2020. This report describes the wetlands and surface waters identified within the Project Area (including rivers, streams, ponds, and lakes), regardless of jurisdictional status. Potential jurisdictional status is provided for each delineated feature to facilitate planning and implementation of setbacks as required by state agencies and client internal processes for wetland and waterbodies which may be regulated.

Delineation efforts included the following tasks:

1. A desktop review of existing, publicly available federal and state agency resources;
2. A field delineation of all aquatic features within the Survey Area using a handheld Global Positioning System (GPS) with reported sub-meter accuracy; and,
3. Documentation of the delineated aquatic features, wetlands, and surface waters including the assumed potential agency jurisdiction for each resource based on hydrology, vegetation, and hydric soils data collected in the field.

Conclusions proposed herein provide information necessary to support a permit application to the United States Army Corps of Engineers (USACE) and the New York State Department of Environmental Conservation (NYSDEC).

## 2.0 REGULATORY AUTHORITY

### 2.1 United States Army Corps of Engineers

In accordance with Section 404 of the Clean Water Act, the USACE asserts jurisdiction over Waters of the United States (WOTUS). WOTUS are defined as wetlands, streams, and other aquatic resources under the regulatory authority of Title 33 Code of Federal Regulations (CFR) Part 328 and the United States Environmental Protection Agency (EPA), per Title 40 CFR Part 230.3(s). Wetlands are defined as “*those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions*” (33 CFR 328.3[c]).

On June 22, 2020, the Step Two Rule (Navigable Waters Protection Rule) took effect. The Navigable Waters Protection Rule outlines categories of waters considered jurisdictional, as well as those considered non-jurisdictional. The four categories of waters that are considered Waters of the United States, and thus jurisdictional to the USACE, include the following:

1. Territorial seas and traditional navigable waters (TNWs)
  - Under the final rule, the territorial seas and traditional navigable waters include large rivers and lakes—such as the Mississippi River, the Great Lakes, Chesapeake Bay, and the Erie Canal—and tidally-influenced waterbodies used in interstate or foreign commerce.
2. Tributaries of such waters;
  - Tributaries include perennial and intermittent rivers and streams that contribute surface flow to traditional navigable waters in a typical year.
  - These naturally occurring surface water channels must flow more often than just after a single precipitation event—that is, tributaries must be perennial or intermittent.
  - Tributaries can connect to a traditional navigable water or territorial sea in a typical year either directly or through other “waters of the United States,” through channelized non-jurisdictional surface waters, through artificial features (including culverts and spillways), or through natural features (including debris piles and boulder fields).
  - Ditches are to be considered tributaries only where they satisfy the flow conditions of the perennial and intermittent tributary definition and either were constructed in or relocate a tributary or were constructed in an adjacent wetland and contribute perennial or intermittent flow to a traditional navigable water in a typical year.



### 3. Lakes, ponds, and impoundments of jurisdictional waters

- Lakes, ponds, and impoundments of jurisdictional waters are jurisdictional where they contribute surface water flow to a traditional navigable water or territorial sea in a typical year either directly or through other “waters of the United States,” through channelized non-jurisdictional surface waters, through artificial features (including culverts and spillways), or through natural features (including debris piles and boulder fields).
- Lakes, ponds, and impoundments of jurisdictional waters are also jurisdictional where they are flooded by a “water of the United States” in a typical year.

### 4. Adjacent wetlands

- Wetlands that physically touch other jurisdictional waters are “adjacent wetlands.”
- Wetlands separated from a “water of the United States” by only a natural berm, bank or dune are also “adjacent.”
- Wetlands inundated by flooding from a “water of the United States” in a typical year are “adjacent.”
- Wetlands that are physically separated from a jurisdictional water by an artificial dike, barrier, or similar artificial structure are “adjacent” so long as that structure allows for a direct hydrologic surface connection between the wetlands and the jurisdictional water in a typical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature.
- An adjacent wetland is jurisdictional in its entirety when a road or similar artificial structure divides the wetland, as long as the structure allows for a direct hydrologic surface connection through or over that structure in a typical year.

#### *Exclusions*

Twelve exclusions from the WOTUS definition, or non-jurisdictional waters, include: groundwater; ephemeral streams; stormwater runoff and stormwater control features; ditches that are not jurisdictional; prior converted cropland; artificial lakes and ponds; and artificially irrigated areas, including agricultural areas that would revert to uplands were the irrigation to cease.

#### *Navigable Waters*

The USACE also regulates navigable waters under Section 10 of the Rivers and Harbor Act (33 U.S.C. 401 et seq.), which requires a permit be issued by the USACE prior to the construction of any structure in or over a navigable water of the United States, as well as any proposed action (such as excavation/dredging or deposition of materials) that would affect the course, location, condition, or capacity of the navigable water, even if the proposed activity is outside the boundaries of the stream in associated wetlands.

## 2.2 New York State Department of Environmental Conservation

The Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law [ECL]) gives the NYSDEC jurisdiction over state-protected wetlands and adjacent areas, typically extending 100 feet from the wetland perimeter. To implement this Act, regulations were promulgated by the State under 6NYCRR Parts 663 and 664. Part 664 designates wetlands into four class ratings, with Class I being the highest or best quality wetland and Class IV being the lowest. Wetlands regulated by the State are those 12.4 acres (5 hectares) in size or larger, as well as those smaller than 12.4 acres, deemed to be of “unusual local importance.” The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands. This allows landowners and other interested parties a means of determining where state jurisdictional wetlands exist, although the maps are legally only approximations—thus the need for on-site delineations. Under Part 663, approval under an Article 24 permit is required from the NYSDEC prior to most disturbances to a state-protected wetland or its protected adjacent area, including the removal of vegetation.

Article 15 of the ECL (Protection of Waters), and its implementing regulations under 6 NYCRR Part 608, provides the NYSDEC with regulatory jurisdiction over activities disturbing the bed or banks of protected streams, including small lakes and ponds with a surface area of 10 acres or less, located within the course of a protected stream. A protected stream is defined in the ECL as any stream, or particular portion of a stream, that has been assigned by the NYSDEC any of the following classifications or standards: AA, A, B, C(T), or C(TS) (6 NYCRR Part 701). State water quality classifications of unprotected watercourses include Class C and Class D streams. The classifications are defined below.

- A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing.
- The best usages of Class B waters are primary and secondary contact recreation and fishing.
- The best usage of Class C waters is fishing. Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning.
- Waters with a classification of D are generally suitable for fishing and non-contact recreation.

It should be noted, per 6 NYCRR Chapter X, Subchapter B, “*All streams or other bodies of water which are not shown on the reference maps herein shall be assigned to Class D, as set forth in Part 701, supra, except that any continuous flowing natural stream which is not shown on the reference maps shall have the same classification and assigned standards as the waters to which it is directly tributary.*” Article 15 of the ECL and 6 NYCRR Part 608 also provide NYSDEC jurisdiction over navigable waters of the State, including contiguous marshes, estuaries, tidal marshes and wetlands that are inundated at mean high water level or tide.

### **3.0 PROJECT AREA CHARACTERISTICS**

#### **3.1 Resources**

The following publicly available resources were used in the investigation, delineation, and report preparation:

- United States Geological Survey (USGS) Dexter and Brownville New York 7.5-minute quadrangles;
- United States Department of Agriculture (USDA) Ecoregion Maps;
- USGS National Hydrography Dataset;
- USGS Hydrologic Unit Maps;
- Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panels 3603430050C (effective 9/2/1993), 3603430041C (effective 9/2/1993), and 361063C (effective 6/2/1992).
- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping;
- NYSDEC Environmental Resource Mapper (ERM);
- NYSDEC Freshwater Wetlands Mapping;
- USDA Natural Resources Conservation Service (NRCS) Web Soil Survey; and
- Recent aerial imagery.

#### **3.2 Vegetation and Ecological Communities**

The Project Area resides in the Eastern Broadleaf Forest (Continental) Province, within the Eastern Great Lakes Lowlands Level III Ecoregion (83) and the Ontario Lowlands level IV Ecoregion (83c) (Bailey 1995; Bryce et al. 2010). Ecoregions are ecosystems of regional extent. The USDA identifies ecoregions by ecosystem characteristics into the following classifications:

- Domains: the largest ecosystem, which are groups of related climates and are differentiated based on precipitation and temperature.
- Divisions: represent the climates within domains and are differentiated based on precipitation levels and patterns, as well as temperature.
- Provinces: Subdivisions of divisions, which are differentiated based on vegetation or other natural land covers.
- Sections: Subdivisions of provinces based on terrain features, sections are the finest level of detail described for each subregion.

- Mountainous Areas: Mountainous regions that exhibit different ecological zones based on elevation.

Recent aerial orthoimagery of the Project Area and surrounding vicinity, obtained from Google Earth (V7.3.3.7699) (9/5/2016), indicates that the Project Area consists primarily of agricultural fields with some undeveloped natural meadow and wooded areas. Several farm buildings and/or rural residences are located within the western parcels of the Project Area, on the north side of Case Road, and one farm residence is located within the easternmost parcel of the Project Area, on the north side of Vaadi Road. Land within the surrounding areas is also primarily used for agricultural production, interspersed with undeveloped forested areas. A large state-regulated wetland complex is mapped surrounding the easternmost parcel of the Project Area (see Section 3.4, below). The Village of Chaumont, containing residential and commercial developments, is located west of the Project Area.

The following ecological communities, as defined by *Ecological Communities of New York State* (Edinger et al., 2014), were identified within the Project Area at the time of the delineation:

- Maple-basswood rich mesic forest
- Spruce-fir swamp
- Common reed marsh
- Deep emergent marsh
- Shallow emergent marsh
- Shrub swamp
- Red maple-hardwood swamp
- Impounded marsh
- Riverside sand/gravel bar
- Cropland/row crops
- Cropland/field crops
- Pastureland
- Successional old field
- Successional shrubland
- Mowed lawn
- Mowed roadside/pathway
- Ditch/artificial intermittent stream



### 3.3 Hydrology

#### 3.3.1 Hydrologic Mapping

The USGS has divided and sub-divided the country into hydrologic units based primarily on drainage basins and watershed boundaries. The main hydrologic unit levels are regions, sub-regions, basins, sub-basins, watersheds, and sub-watersheds. The hydrologic units are nested within each other, from the largest geographic area (regions) to the smallest geographic area (sub-watersheds). Each hydrologic unit is identified by a unique hydrologic unit code (HUC) consisting of two to twelve digits based on the six levels of classification in the hydrologic unit system. In addition to the hydrologic unit codes, each hydrologic unit is assigned a name corresponding to the unit's principal hydrologic feature, or to a cultural or political feature within the unit.

The region hydrologic unit level contains either the drainage area of a major river or the combined drainage areas of a series of rivers. Regions receive a two-digit code. The following hydrologic unit levels are designated by the addition of another two digits with each level. Each sub-region includes the area drained by a river system, a reach of a river and its tributaries in that reach, a closed basin or basins, or a group of streams forming a coastal drainage area. The Project Area is located within the Chaumont-Perch sub-basin (HUC 04150102), with the western parcels located in the Horse-Creek – Frontal Lake Ontario sub-watershed (HUC 041501020202). The northern portion of the easternmost parcel is situated within the Middle Perch River sub-watershed (HUC 041501020302) and its southern portion within the Lower Perch River sub-watershed (HUC 041501020303) (USEPA 2017).

The NYSDEC also classifies watersheds more generally within the State of New York. Unlike mapping efforts outlined by the USGS above, the NYSDEC uses the definitions of watersheds and drainage basins interchangeably. New York's waters (e.g., lakes, rivers, wetlands, and streams) fall within one of seventeen major drainage basins. The NYSDEC defines these drainage basins or watersheds as an area of land that drains water into a specific body of water within or adjacent to New York State and includes networks of rivers, streams, lakes, and the surrounding lands. The NYSDEC-classified watersheds are separated by high elevation geographic features (e.g., mountains, hills, and ridges). Each major drainage basin corresponds to one or more USGS sub-basins (USGS HUC 8-digit codes). The Project Area is located within the Lake Ontario and Minor Tributaries watershed (NYSDEC 2014b). This drainage basin includes 2,460 square miles of land area and includes 5,891 miles of freshwater rivers and streams and 18,042 acres of lakes, ponds, and reservoirs.

Two NYSDEC-mapped rivers, the Perch and Chaumont Rivers, are located near the Project Area. At its closest point, the Perch River runs approximately 500 feet to the southeast of the easternmost parcel of the Project Area. The Perch River continues to the southwest, emptying into Black River Bay of Lake Ontario about 4.25 miles south of the Project Area. The Chaumont River, at its nearest point to the Project Area, is located approximately 0.75 miles to the northwest

of the Project Area. It flows to the south-southwest into Chaumont Bay in Lake Ontario approximately one mile west of the Project Area.

### **3.3.2 Hydrologic Character**

The predominant surface waterbodies within and adjacent to the Project Area are unnamed tributaries to Guffin Creek and Lake Ontario within the western parcels of the Project Area and unnamed tributaries to the Perch River east of the Project Area. The Lower Chaumont River, located approximately 0.75 mile to the northwest of the Project Area, and its tributaries from Lake Ontario to Depauville are classified as NYSDEC Class C waterways. The upper reaches of the river have not been assessed (NYSDEC 2008). In addition, unnamed tributaries to Guffin Creek, also identified by the NYSDEC as Class C waterways, are mapped within the Project Area north of Case Road. The Perch River, located approximately 500 feet southeast of the Project Area is also designated by the NYSDEC as a Class C waterway but its middle and lower reaches (including Perch Lake) have not been assessed (NYSDEC 2008). Waterways with a Class C designation are not afforded state protections but may be protected under the federal CWA.

According to climate data from the City of Watertown, located approximately 8 miles southeast of the Project Area, this region receives an average of 43.1 inches of precipitation annually (U.S. Climate Data 2020). In general, water drains from the Project Area to the west towards Lake Ontario, in some areas draining north/northwest and in others draining south/southwest. Hydrologic conditions were normal during the delineation, with 0.8 inch of precipitation logged in Watertown during the delineation effort and 2.08 inches recorded during the preceding week.

### **3.3.3 FEMA Flood Zone Mapping**

FEMA maintains materials developed to support flood hazard mapping for the National Flood Insurance Program (NFIP). The Project Area falls within FEMA FIRM Panels 360343005C (effective 9/2/1993), 3603430041C (effective 9/2/1993), and 361063C (effective 6/2/1992) (FEMA 2020). The area along Horse Creek in the northwest portion of the Project Area, as well as the area along several small tributaries to Guffin Creek north of Case Road, are within the FEMA-mapped 100-year flood hazard area, Zone A (Figure 3; FEMA 2020).

## **3.4 Federal and State Mapped Wetlands and Streams**

The USFWS is the principal federal agency tasked with providing information to the public on the status and trends of wetlands on a national scale. The USFWS NWI is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of nationwide wetlands (where mapped). NWI mapping data is offered to promote the understanding, conservation, and restoration of wetlands. Note, unlike NYSDEC wetland maps, NWI wetland maps do not denote federal jurisdiction with their mapped boundaries. NWI wetlands are used as a reference guide by TRC wetland scientists to conduct a more informed site survey

in the demarcation or delineation of wetlands and streams, which could be subject to federal jurisdiction .

Review of the NWI mapping during the preliminary desktop analysis indicated numerous wetland areas are mapped within the Project Area boundaries (Figure 3). Within the western Project Area parcels, these included eight palustrine emergent (PEM) wetlands, four palustrine scrub-shrub (PSS) wetlands, three wetlands identified as PSS/PEM wetlands, and one palustrine unconsolidated bottom (PUB) mapped entirely within the Project Area boundaries. Portions of two PEM wetlands, one PSS wetland, and one PUB/PEM wetland are mapped as partially within these parcels.

One state-regulated wetland is mapped by the NYSDEC as overlapping the Project Area (Figure 3; NYSDEC 2014a). An approximately 2.4-acre portion of Wetland X-6 as well as the associated State-regulated adjacent area is mapped within the eastern part of the contiguous Project Area.. Wetland X-6 is designated by the NYSDEC as a Class 2 wetland and is mapped as comprising 782 acres, extending east of the Project Area. This NYSDEC-protected wetland adjoins portions of TRC-delineated wetland W-BF-6, and is assumed hydrologically connected thereto.

Three additional NYSDEC wetlands are mapped within one mile of the Project Area (Figure 3; NYSDEC 2014a). Wetland BV-1 is a Class 1 wetland and is 59,247 acres in area. It is located north and south of that Project Area outparcel adjoining State Route 12, north of Perch River. . Wetland X-10 is an 84.5-acre Class 2 wetland and is located approximately 0.5 mile southeast of the Project Area, at the mouth of Guffin Creek. This feature is downstream of the unnamed waterway that runs adjacent to Case Road (see below for more detail on mapped waterways within the Project Area). Finally, the area adjacent to the Chaumont River, located approximately 0.75 mile west-northwest of the Project Area, is also identified as a state-regulated wetland. Wetland X-5 is also designated as a Class 2 wetland (NYSDEC 2014a).

There are also numerous riverine wetland systems mapped within the Project Area. Each of the waterways mapped within the Project Area are mapped as perennial features by both the NWI and USGS National Hydrography Dataset (NHD) (USFWS 2020; USGS 2018). Three unnamed waterways are mapped within the eastern portions of the Project Area, draining southwest to a common unnamed waterway mapped to the north of Case Road (Figure 3; USGS 2018). Portions of two of these waterways as well as the waterway along Case Road are identified by the NWI as excavated (human-made) features (USFWS 2020). The waterway adjacent to Case Road continues offsite to the southwest where it drains into Guffin Bay of Lake Ontario. Each of these waterways are classified by the NYSDEC as Class C waterways (NYSDEC 2014a). Another excavated perennial waterway is mapped near the center portions of the Project Area (Figure 3). This feature continues offsite to the southwest and empties directly into Guffin Bay and is not identified by the NYSDEC Environmental Resource Mapper (NYSDEC 2014a). Another perennial waterway, Horse Creek, is mapped as crossing through the northwesternmost corner of the Project Area (Figure 3). This creek flows offsite to the west where it drains into Chaumont Bay in Lake Ontario and is also identified by the NYSDEC as a Class C feature (USGS 2018; NYSDEC 2014a). No waterways are mapped within the easternmost parcels of the Project Area (USGS

2018; NYSDEC 2014a). NYSDEC-mapped waterways within the Project Area are listed in Table 1, below.

While these resources provide general information about the location, size, and quality of wetlands and waterways, field verification is required to confirm the presence or absence and the extent of aquatic features within the Project Area. During field surveys, TRC scientists delineated additional unmapped wetlands and waterways. These results are discussed in detail in Section 5.0.

**Table 1. NYSDEC-Mapped Streams within the Project Area**

NYSDEC Stream Name and Regulatory ID Number	NYS Major Drainage Basin	USGS Sub-basin HUC 8 and Name	NYSDEC Classification <sup>1</sup> and Standard <sup>2</sup>	Cumulative Linear Feet within the Project Area
Horse Creek – 847-22	Lake Ontario	04150102 – Chaumont_Perch	Class C	1542
Unnamed tributaries to Guffin Bay – 847-23	Lake Ontario	04150102 – Chaumont_Perch	Class C	10,779

<sup>1</sup>A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Waters with a classification of D are generally suitable for fishing and non-contact recreation.

<sup>2</sup> Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning.

### 3.5 Topography and Soil Characteristics

#### 3.5.1 Topography

The Project Area is relatively flat, ranging from about 280 – 380 feet above mean sea level (AMSL) with a woodlot within the easternmost Project Area parcel comprising the highest point in the Project Area. In general, topography slopes gradually down from east to west, towards Lake Ontario.

#### 3.5.2 Site Soils

The USDA NRCS Web Soil Survey is an online resource mapping tool that provides soil data and information for the United States. This information is produced by the National Cooperative Soil Survey (NCSS), in partnership with federal, regional, state, and local agencies and private entities and institutions.

A total of 14 soil map units were identified within the Survey Area. Soil map units represent a type of soil, a combination of soils, or miscellaneous land types. Soil map units are usually named for



the predominant soil series or land types within the map unit. Due to limitations imposed by the small scale of the soil survey mapping, it is not uncommon to identify wetlands within areas not mapped as hydric soil, while areas mapped as hydric often do not support wetlands. This concept is emphasized by the NRCS:

*“Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.”*

Soil drainage in the Project Area is variable, with approximately 47.8 percent of mapped soils classified as moderately well drained, 30.1 percent mapped as somewhat poorly drained, 13.0 percent classified as poorly drained, and lesser proportions mapped as very poorly drained (3.9 percent), excessively drained (5.1 percent), somewhat excessively drained (3.3 percent), and well drained (0.2 percent). The majority of soils within the Project Area (~80.9 percent) are classified as farmland of statewide important, with approximately 19.1 percent mapped as not prime farmland. No soils mapped within the Project Area are mapped as prime farmland (USDA NRCS 2019). The 14 soil map units identified within the Project Area by the NRCS are outlined in Table 2. Refer to Figure 2 for graphically depicted soil map units of the Project Area.

**Table 2. Mapped Soils within the Survey Area**

Map Unit Symbol	Map Unit Name	Slope	Drainage Class	Hydric Rating	Acres in Survey Area	Percent of Survey Area
BgB	Benson-Galoo complex, very rocky	0-8%	Somewhat excessively drained	0%	3.3	0.3%
CIA	Chaumont silty clay	0-3%	Somewhat poorly drained	12%	23.8	2.2%
CIB	Chaumont silty clay	3-8%	Somewhat poorly drained	7%	12.1	1.1%
Cp	Covington silty clay	0-3%	Poorly drained	90%	99.0	9.3%
FaB	Farmington loam	0-8%	Well drained	5%	2.5	0.2%
Fu	Fluvaquents-Udifluents complex, frequently flooded	0-3%	Poorly drained	48%	5.1	0.5%
GbB	Galoo-rock outcrop complex	0-8%	Excessively drained	5%	54.7	5.1%
Gv	Guffin clay	0-3%	Poorly drained	85%	29.5	2.8%
KgA	Kingsbury silty clay	0-2%	Somewhat poorly drained	7%	257.8	24.2%
KgB	Kingsbury silty clay	2-6%	Somewhat poorly drained	6%	27.3	2.6%
Lc	Livingston mucky silty clay	0-3%	Very poorly drained	85%	41.8	3.9%
VeB	Vergennes silty clay loam	3-8%	Moderately well drained	0%	378.9	35.5%
WnB	Wilpoint silty clay loam	3-8%	Moderately well drained	8%	106.4	10.0%

Map Unit Symbol	Map Unit Name	Slope	Drainage Class	Hydric Rating	Acres in Survey Area	Percent of Survey Area
WnC	Wilpoint silty clay loam	8-15%	Moderately well drained	8%	24.7	2.3%

### **Hydric Soil**

The Web Soil Survey of the Survey Area was consulted prior to conducting the delineation to determine the extent of soils meeting hydric criteria as defined by the NRCS. The *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) (1987 Manual) defines a hydric soil as “a soil that in its undrained condition, is saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation.”

Soil map units are composed of one or more components or soil types, each of which can be rated as hydric or non-hydric. A map unit’s hydric rating is based on the percentage of hydric soil components that make up the map unit. Thus, map units with a greater proportion of hydric components have a greater hydric soil rating. Map units with relatively high hydric soil ratings are more likely to correspond with potential wetland areas. Of the 14 soil map units mapped within the Project Area, five identified as having a relatively high proportion (33 percent or greater) of hydric components (Figure 2; USDA NRCS 2019). Although a soil map unit will be given a general hydric soil rating on the Web Soil Survey, this rating is for reference only and does not supersede site-specific conditions documented in the field that constitute hydric soil presence in located wetlands.

## 4.0 DELINEATION METHODOLOGY

Prior to initiating field investigations, TRC conducted a desktop review of publicly available data to determine the potential presence of federal and state mapped wetlands and streams within the Project Area alongside other potential environmental constraints, which could impact the Project. TRC wetland scientists subsequently performed field investigations to identify aquatic features within the Project Area. Delineations for wetlands and streams were performed in accordance with criteria set forth in the 1987 *Army Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) (Manual) and the 2012 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (USACE 2012) (Supplement). Data was collected from a sample plot in each delineated wetland. Depending on the size of the delineated area and any change in cover type, multiple sample plots of the delineated wetland may have been taken. Delineation data was recorded on USACE Routine Wetland Determination Forms (Appendix C). The boundaries of wetlands were demarcated with pink survey ribbon labeled “wetland delineation” and located with a GPS unit with reported sub-meter accuracy.

### 4.1 Hydrology

The presence of wetland hydrology is determined based on primary and secondary indicators established by the USACE. The 1987 Manual defines the presence of wetland hydrology when at least one primary indicator or two secondary indicators are identified. Hydrology is present if one or more primary indicator is present; however, if primary indicators are absent, two or more secondary indicators are required to determine the presence of wetland hydrology. If other probable wetland hydrology evidence was found on-site, then such characteristics were subsequently documented on the USACE Routine Wetland Determination Form. Wetland hydrology indicators are grouped into 18 primary and 11 secondary indicators as presented in the Supplement.

Wetland hydrology may influence the characteristics of vegetation and soils due to anaerobic and reducing conditions (Environmental Laboratory 1987). This influence is dependent on the frequency and duration of soil inundation or saturation which, in turn, is dependent on a variety of factors including topography, soil stratigraphy, and soil permeability, in conjunction with precipitation, runoff, and stormwater and groundwater influence.

### 4.2 Vegetation

Hydrophytic vegetation is defined in the 1987 Manual as:

*“...the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present.”*

Plants are categorized according to their occurrence in wetlands. Scientific names and wetland indicator statuses for vegetation are those listed in *The National Wetland Plant List: 2018 Wetland*

*Ratings* (USACE 2018) (NWPL). Due to regional differences in wetland vegetation, among other characteristics, the USACE divided the United States into regions to improve the accuracy and efficiency of wetland delineations. The indicator statuses specific to the “Northcentral and Northeast Region,” as defined by the USACE, apply to the Project Area. The official short definitions for wetland indicator statuses are as follows:

- Obligate Wetland (OBL): Almost always occur in wetlands.
- Facultative Wetland (FACW): Usually occur in wetlands but may occur in non-wetlands.
- Facultative (FAC): Occur in wetlands and non-wetlands.
- Facultative Upland (FACU): Usually occur in non-wetlands but may occur in wetlands.
- Upland (UPL): Almost never occur in wetlands.

For species with no indicator status in the Project Area’s region, the indicator status assigned to the species in the nearest adjacent region is applied. Plants that are not included on the NWPL within the Project Area’s region, nor an adjacent region, are given no indicator status, and are not included in dominance calculations. Plants that are not listed in any region on the NWPL are considered as UPL on USACE Routine Wetland Determination Forms.

Vegetation in both upland and wetland communities was characterized using areal methods for instituting plot measurement. In accordance with USACE methodology, a plot radius of 30 feet around the soil sample location was applied to tree species and vines, a 15-foot radius for saplings/shrubs, and a 5-foot radius was utilized for herbaceous plants. After the measurement of percent coverage was determined for each species, an application of the 50/20 rule of dominance determination was utilized to determine hydrophytic dominance at sample plots. In using the 50/20 rule, the plants that comprise each stratum are ranked from highest to lowest in percent cover. The species that cumulatively equal or exceed 50 percent of the total percent cover for each stratum are dominant species, and any additional species that individually provides 20 percent or more percent cover are also considered dominant species of its respective strata. The total cover for each stratum, and subsequently the plot as a whole, could exceed 100 percent due to vegetation overlap.

It should be noted that wetland boundary results of this approach may differ meaningfully from the approach outlined within the *New York State Freshwater Wetland Delineation Manual* (Browne et al. 1995). The difference is described within this report if needed to address NYSDEC Article 24 jurisdiction. Though not common, two wetland boundaries, a state and a federal boundary, may arise from subtle differences in the definition of vegetative strata, sampling technique, and wetland indicators between the USACE and the NYSDEC. See Section 5.0 for more detail.

Cover types are also assigned to each wetland. The delineated resources were classified in accordance with the system presented in *The Classification of Wetlands and Deepwater Habitats*



of the United States, Second Edition (FGDC 2013). Field biologists assign cover types to wetlands based on this classification standard and utilize this document. TRC biologists also used the definitions for perennial and intermittent streams found in *The Classification of Wetlands and Deepwater Habitats of the United States, Second Edition* (FGDC 2013) when classifying delineated streams. Ephemeral streams have flowing water primarily from rainfall runoff and are above the water table.

### 4.3 Soils

Hydric soil indicators were determined utilizing the Supplement with added provision from the *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils*, Version 8.2 (USDA NRCS 2018). Soil characteristics were documented, including color, texture, layer depth, presence of organic layers, and evidence of redoximorphic features, which may include indicators such as reduction, oxidation, gleyed matrices, manganese features. Soil test pits were dug using a spade shovel to a depth of approximately 20 inches. If refusal of a soil sample to 20 inches occurred due to the presence of hardpan layer, rock, or hard fill materials, this occurrence was documented. Soil color was described using the *Munsell Soil Color Book* (Munsell Color 2015). Texture was determined using the USDA feel method (Thien 1979).

Hydric soil indicators applicable to the Project Area were determined using the *Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin* (USDA NRCS 2006) (MLRA Handbook). Per the MLRA Handbook, the Project Area is within Major Land Resource Area 144A (New England and Eastern New York Upland, Southern Part) of Land Resource Region (LRR) R (Northeastern Forage and Forest Region). Hydric soil indicators that do not apply to this MLRA were not considered.

### 4.4 Streams

Streams and other non-wetland aquatic features (e.g., lakes and ponds, if any) within the Project Area were identified by the presence of standing surface water or confined flow, and, with the exception of some ephemeral streams, a bed and bank containing an ordinary high water mark (OHWM) (33 CFR 328.3). The OHWM is formed by the fluctuations of water, and where not established and available by public record, is determined by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter and debris; or other characteristics of the surrounding areas.

The streams were delineated from bank to bank with blue flagging and points of the delineated boundaries were located with a handheld GPS unit set for sub-meter accuracy. In streams less than 6 feet wide, sub-meter GPS point capture and post-processing (differential correction) may yield imprecise stream bank measurements due to the narrow nature of the stream. In these circumstances, centerline delineations are applied to maintain accurate representation of stream sinuosity for planning and impact calculation purposes. Stream attributes including width, bank height, and water depth are measured and documented on TRC Stream Inventory Data Forms (Appendix C).

Streams are identified as to their flow regime of perennial, intermittent or ephemeral. Perennial streams tend to flow throughout the year, except during severe drought conditions. They can flow below the water table and receive groundwater sources from springs or groundwater seepages on slopes. Intermittent streams flow only during certain times of year from alternating springs, snow melt, or from seasonal precipitation runoff. Ephemeral streams flow sporadically and are entirely dependent on precipitation from storm events or periodic snow melts. They tend to flow above the water table and are often found as drainage features adjacent to or within the headwaters of a more major stream system. Identification in the field was based on characteristics including degree of channel formation, volume of flow, landscape setting, position relative to groundwater table, and presence/absence of aquatic fauna.

## 5.0 RESULTS

### 5.1 General Overview

The Project Area contains primarily upland agricultural fields, with areas of forested upland and wetland areas, scrub-shrub wetlands, emergent wetlands, and agricultural drainages. Dominant natural vegetation included American elm (*Ulmus americana*), black spruce (*Picea mariana*), green ash (*Fraxinus pennsylvanica*), and swamp white oak (*Quercus bicolor*) in the tree stratum; Morrow's honeysuckle (*Lonicera morrowii*), gray dogwood (*Cornus racemosa*), and black willow (*Salix nigra*) in the shrub stratum; and reed canary grass (*Phalaris arundinacea*), Kentucky bluegrass (*Poa pratensis*), white clover (*Trifolium repens*), narrowleaf cattail (*Typha angustifolia*), and American vetch (*Vicia americana*) in the herb stratum.

Conditions were relatively normal during the delineation effort, with the region receiving 0.80 inch of rain from June 1 to June 5 and a total of 2.08 inches of rain in the week prior to the field surveys (U.S. Climate Data 2020).

From June 1 to June 5, and on September 23, TRC delineated 23 wetlands and 9 waterways (Figure 4). Approximately 9.61 percent (104.22 acres) of the 1,084-acre Project Area was identified as wetland. Tables 3 and 4 below detail the wetlands and streams delineated in the Project Area. Representative photographs taken of each delineated wetland and stream community within the Project Area are provided in Appendix B. Completed USACE Routine Wetland Determination Forms and NYSDEC Stream Delineation Forms are provided in Appendix C.

### 5.2 Delineated Wetlands

**Palustrine Emergent wetlands (PEM)** – Eighteen wetlands delineated within the Project Area contained characteristics representative of an emergent wetland community. Emergent wetland communities are dominated by herbaceous vegetation, comprising woody or non-woody plants that are generally less than 3.28 feet tall (Cowardin et al. 1979).

Emergent wetlands delineated within the Project Area were typically dominated by reed canary grass, narrowleaf cattail, white meadowsweet (*Spiraea alba*), fox sedge (*Carex vulpinoidea*), soft rush (*Juncus effusus*), gray dogwood, and spotted touch-me-not (*Impatiens capensis*). Primary hydrology indicators typically recorded within these wetlands included saturation (A3), water-stained leaves (B9), and oxidized rhizospheres on living roots. Secondary indicators of hydrology typically observed within these wetlands included drainage patterns (B10), saturation visible in aerial imagery (C9), geomorphic position (D2), and a positive FAC-neutral test (D5). Emergent wetlands within the Project Area commonly contained clay loam, silty clay loam, and clay soils and soils typically demonstrated redox dark surface (F6) and / or depleted matrix (F3) indicators (Appendix C).

**Palustrine Scrub-shrub wetlands (PSS)** – Nine wetlands delineated within the Project Area contained characteristics representative of a scrub-shrub wetland community. These wetlands

are dominated by woody shrubs typically less than 20 feet tall (Cowardin et al. 1979). Scrub-shrub wetlands observed within the Project Area were dominated by gray dogwood, swamp white oak, American elm, black willow, Morrow's honeysuckle, and white meadowsweet. Evidence of hydrology observed within these wetlands typically included saturation (A3) and / or high water table (A2), and common secondary hydrology indicators observed including geomorphic position (D2), a positive FAC-neutral test (D5), and saturation visible in aerial imagery (C9). Clay loam and clay soils were typically recorded within these wetlands and soils demonstrated depleted matrix (F3) and / or redox dark surface (F6) hydric indicators.

**Palustrine Forested wetlands (PFO)** – Four wetlands identified within the Project Area were recorded as containing a forested wetland community. Forested wetlands are dominated by woody vegetation that typically has a diameter at breast height (DBH) of at least three inches, with an understory of shrub and herbaceous species (Cowardin et al. 1979).

Dominant vegetation in the forested wetlands observed within the Project Area typically included American elm, swamp white oak, black willow, and black spruce in the tree stratum, and gray dogwood and Morrow's honeysuckle within the shrub stratum. Forested wetlands within the Project Area were typically recorded as having saturation (A4) and / or high water table (A2) primary hydrology indicators, and microtopographic relief (D4) and a positive FAC-neutral test (D5) secondary indicators. Clayey soils were typical within these wetlands, with redox dark surface (F6) and / or a depleted matrix (F3) hydric soil indicators.

**Palustrine Unconsolidated Bottom wetlands (PUB)** – Three wetlands delineated within the Project Area were observed to contain characteristics representative of unconsolidated bottom wetland communities. These communities include wetland and deep-water habitats with at least 25 percent cover of particles smaller than stone, and a vegetative cover of less than 30 percent. Because these are bodies of standing water, evidence of hydrology is decisively present (Cowardin et al. 1979)

Although unconsolidated bottom wetlands are not typically heavily vegetated, dominant vegetation within those observed in the Project Area included American elm, swamp white oak, reed canary grass, and softstem bulrush (*Schoenoplectus tabernaemontani*). Primary hydrology indicators typically observed included surface water (A1), high water table (A2), and inundation visible in aerial imagery (B7). Secondary hydrology indicators typically observed within these wetlands included geomorphic position (D2) and a positive FAC-neutral test (D5). Clay soils were most frequently recorded within these wetlands and hydrogen sulfide (A4) and redox dark surface (F6) hydric soil indicators were observed.

**Table 3. Delineated Wetlands within the Survey Area**

Wetland Field Designation	Cover Type Classification <sup>1</sup> and Acreage				Total Wetland Acreage within Survey Area	NWI Cover Type	NYSDEC Wetland ID	NYSDEC Wetland Class	Stream(s) Present Within Wetland	Linear Feet of Stream(s) Within Wetland	Potential Jurisdiction	Centroid Coordinates
	PEM	PSS	PFO	PUB								
W-BF-2	0.17	-	-	-	0.17	PEM	N/A	N/A	-	-	Non-jurisdictional	44.0800 -76.0693
W-BF-3	0.14	-	-	-	0.14	PEM	N/A	N/A	-	-	Non-jurisdictional	44.0810 -76.0667
W-BF-5	44.3	2.30	-	0.25	46.85	PEM / PSS / PFO / PUB	N/A	N/A	S-BF-1	72	USACE	44.0736 -76.0687
W-BF-6	1.61	-	13.00	-	14.61	PEM / PFO	X-6 (check zone)	Class 2	-	-	USACE NYSDEC	44.0689 -76.0603
W-BF-7	1.48	-	-	0.03	1.51	PEM / PUB	N/A	N/A	-	-	USACE	44.0695 -76.0629
W-BF-8	0.13	-	-	-	0.13	PEM	N/A	N/A	-	-	Non-jurisdictional	44.0688 -76.0625
W-BF-9	2.51	-	-	-	2.51	PEM	N/A	N/A	S-BF-2	1446	USACE	44.0621 -76.0884
W-BF-10	1.44	-	-	-	1.44	PEM	N/A	N/A	S-BF-2	1323	USACE	44.0617 -76.0831
W-BF-11	11.81	0.77	-	-	12.58	PEM / PSS	N/A	N/A	S-BF-3	118	USACE	44.0530 -76.1196
W-BF-12	-	0.46	-	-	0.46	PSS	N/A	N/A	-	-	USACE	44.0588 -76.1001
W-JJB-2	-	1.72	-	-	1.72	PSS	N/A	N/A	-	-	USACE	44.0538 -76.1240
W-NSD-1	1.12	-	0.82	0.15	2.09	PEM / PFO / PUB	N/A	N/A	-	-	USACE	44.0694 -76.1147

Wetland Field Designation	Cover Type Classification <sup>1</sup> and Acreage				Total Wetland Acreage within Survey Area	NWI Cover Type	NYSDEC Wetland ID	NYSDEC Wetland Class	Stream(s) Present Within Wetland	Linear Feet of Stream(s) Within Wetland	Potential Jurisdiction	Centroid Coordinates
	PEM	PSS	PFO	PUB								
W-NSD-2	0.03	-	-	-	0.03	PEM	N/A	N/A	-	-	Non-jurisdictional	44.0672 -76.1145
W-NSD-3	-	1.71	7.11	-	8.82	PSS / PFO	N/A	N/A	-	-	USACE	44.0664 -76.1120
W-NSD-4	-	0.40	-	-	0.40	PSS	N/A	N/A	-	-	Non-jurisdictional	44.0626 -76.1176
W-NSD-5	0.09	1.87	-	-	1.96	PEM / PSS	N/A	N/A	-	-	Non-jurisdictional	44.0607 -76.1134
W-NSD-6	-	0.30	-	-	0.30	PSS	N/A	N/A	-	-	Non-jurisdictional	44.0623 -76.1130
W-NSD-7	2.71	0.98	-	-	3.69	PEM / PSS	N/A	N/A	-	-	USACE	44.0609 -76.1050
W-NSD-9	0.09	-	-	-	0.09	PEM	N/A	N/A	-	-	USACE	44.0645 -76.0995
W-NSD-10	0.71	-	-	-	0.71	PEM	N/A	N/A	-	-	USACE	44.0663 -76.0967
W-NSD-11	2.47	-	-	-	2.47	PEM	N/A	N/A	-	-	USACE	44.0641 -76.0928
W-NSD-12	0.23	-	-	-	0.23	PEM	N/A	N/A	-	-	USACE	44.0639 -76.0897
W-NSD-13	1.31	-	-	-	1.31	PEM	N/A	N/A	S-BF-2 S-NSD-5	100 880	USACE	44.0639 -76.0897
<b>Total Wetland Acreage Delineated:</b>					<b>104.22</b>	<b>Total Stream Length Within Wetlands</b>				<b>3,939</b>		

<sup>1</sup>PEM – palustrine emergent; PSS – palustrine scrub-shrub; PFO – palustrine forested; PUB – palustrine unconsolidated bottom

### 5.3 Delineated Streams

Nine streams were delineated within the Project Area (Table 4). Stream classification is dependent on their usual level of flow regime. Perennial streams tend to flow throughout the year, except during severe drought conditions. They can flow below the water table and receive groundwater sources from springs or groundwater seepages on slopes. Intermittent streams flow only during certain times of year from alternating springs, snow melt, or from seasonal precipitation runoff. Ephemeral streams flow sporadically and are entirely dependent on precipitation from storm events or periodic snow melts. They tend to flow above the water table and are often found as drainage features adjacent to or within the headwaters of a more major stream system.

Within the Project Area, one stream was recorded as perennial, two were observed to be ephemeral streams, and six were observed to have intermittent flow regimes. Stream substrates typically included silt/clay, and in some cases cobble or gravel. The majority of streams were recorded with a gentle (<2 percent) gradient, with one stream, S-NSD-2, observed to have a steep (4-6 percent) gradient. The majority of streams had a depth of 0-6 inches, with the exception of S-NSD-1, Horse Creek, which had an average depth of 36 inches. Average width at the ordinary high water mark ranged from 2-6 feet for the majority of the features, with S-NSD-1 having an average width of 30 feet. All streams identified within the Project Area were observed to primarily be used for drainage. However, frogs were observed to be present within five of the eight identified streams. No aquatic wildlife was observed within the two ephemeral streams, S-NSD-2, and S-NSD-4, as well as S-NSD-5, an intermittent feature. Three streams, S-BF-2, S-NSD-1, and S-NSD-5, are NYSDEC-mapped Class C waters.



**Table 4. Delineated Streams within the Project Area**

Stream Field Designation	Flow Regime Classification	Linear Feet within Project Area	NYSDEC Stream Name and Regulatory ID	NYSDEC Classification	Potential Jurisdiction	Waterbody ID Number (WIN)	Stream Order <sup>1</sup>	Centroid Coordinates
S-BF-1	Intermittent	151	N/A	N/A	USACE	-	1	44.0664 -76.0713
S-BF-2	Intermittent	3,272	Unnamed Tributaries to Guffin Creek 847-22	Class C	USACE	Ont 9a-18a	2	44.0623 -76.0882
S-BF-3	Intermittent	1,256	N/A	N/A	USACE	Ont 9a-18a	1	44.0518 -76.1166
S-NSD-1	Perennial	1,542	Horse Creek 847-22	Class C	USACE	Ont 9a	3	44.0690 -76.1171
S-NSD-2	Ephemeral	45	N/A	N/A	Non-jurisdictional	-	2	44.0690 -76.1143
S-NSD-3	Intermittent	582	N/A	N/A	USACE	-	1	44.0646 -76.1150
S-NSD-4	Ephemeral	607	N/A	N/A	Non-jurisdictional	Ont 9a-18a	1	44.0664 -76.0917
S-NSD-5	Intermittent	3,661	Unnamed tributaries to Guffin Creek 847-23	Class C	USACE	Ont 9a-18a	1	44.0665 -76.0859
S-NSD-6	Intermittent	79	N/A	N/A	USACE	Ont 9a-18a	1	44.0632 -76.0928
<b>Total Stream Length Delineated:</b>		<b>11,195</b>						
<sup>1</sup> Stream order is reference to the Strahler stream order based on the occurrence of streas as delineated in the field.								

## 6.0 CONCLUSIONS

TRC delineated a total of 23 wetlands, comprising 104.22 acres, within the Project Area, including 18 wetlands with PEM characteristics (72.35 acres), nine with PSS characteristics (10.51 acres), three with PFO characteristics (20.93 acres), and three with PUB characteristics (0.43 acres). Based on the 2020 Navigable Waters Protection Rule, TRC expects that 16 wetlands will be considered jurisdictional by the USACE, as they are hydrologically connected to WOTUS or extend offsite where connections are presumed. There are no USACE-required buffers surrounding USACE-jurisdictional wetlands. However, one of these wetlands, W-BF-6, is within an area mapped as a NYSDEC-regulated wetland, and therefore is expected to fall under NYSDEC protection, as well. Thus, a 100-foot buffer is expected to be required surrounding this wetlands. Seven of the identified wetlands appear to be isolated and considered to be non-jurisdictional to the USACE.

TRC also identified nine streams totaling approximately 11,195 linear feet within the Project Area. These included one perennial waterway, six intermittent streams, and two streams with ephemeral flow regimes. TRC anticipates that six of these will be considered jurisdictional by the USACE. The two ephemeral streams, S-NSD-2 and S-NSD-4 are not expected to be under USACE jurisdiction. Three streams, S-BF-2, S-NSD-1, and S-NSD-5 are mapped by the NYSDEC as Class C streams, and thus are not protected waters under Article 15 of the ECL.

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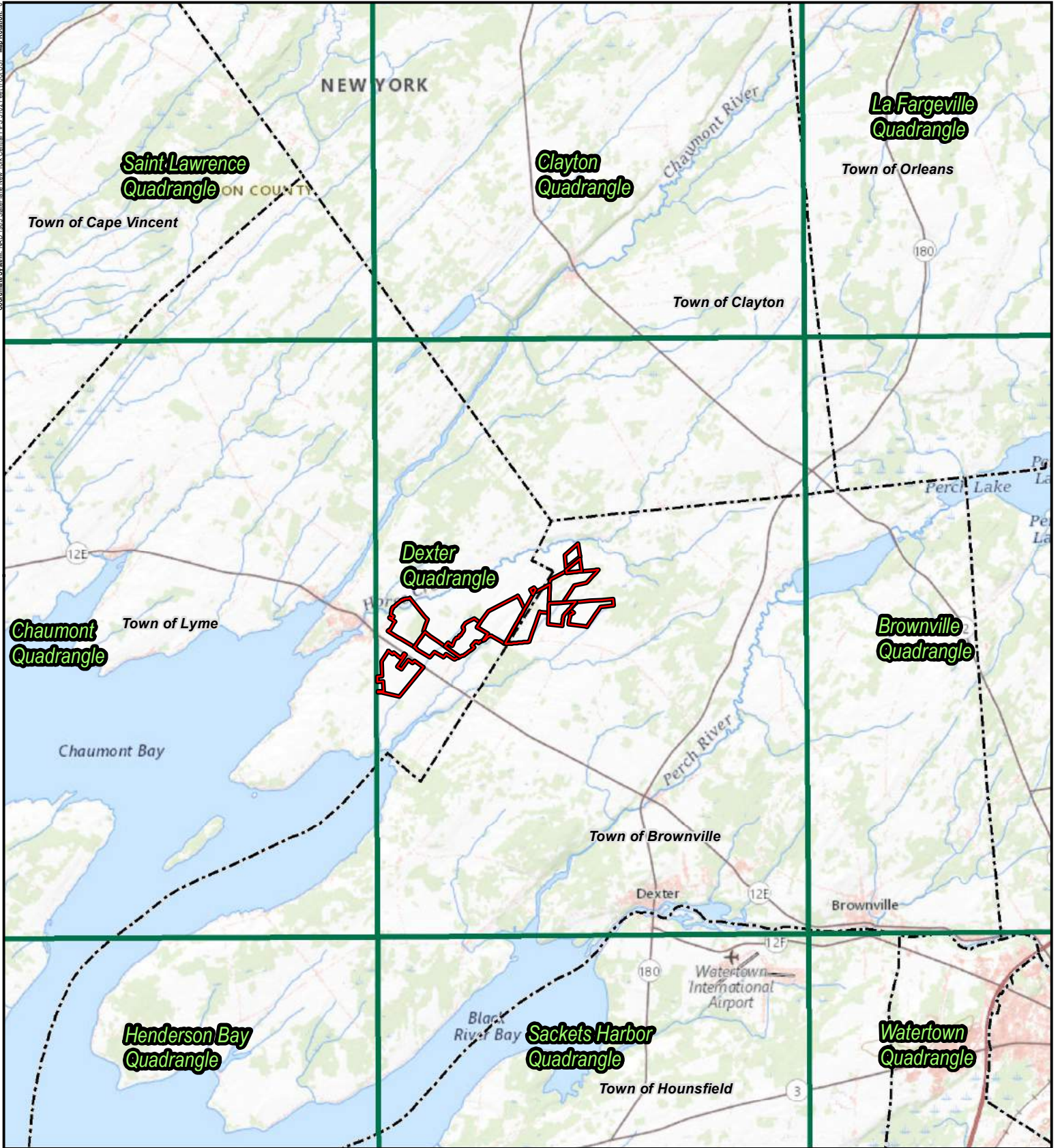
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## **APPENDIX A**

### **Figures**



Coordinate System: NAD 1983, StatePlane, New York Central FIPS 3102 Feet (Foot, US), Map Rotation: 0



**LEGEND**

- PROJECT AREA
- USGS 24K QUAD BOUNDARY
- TOWN BOUNDARY

1:120,000  
1" = 10,000'

0 1 2 Miles

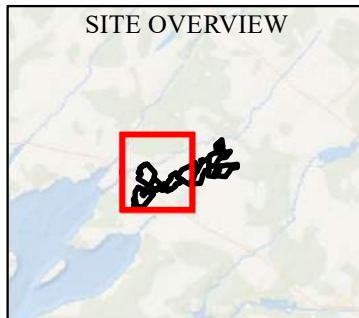
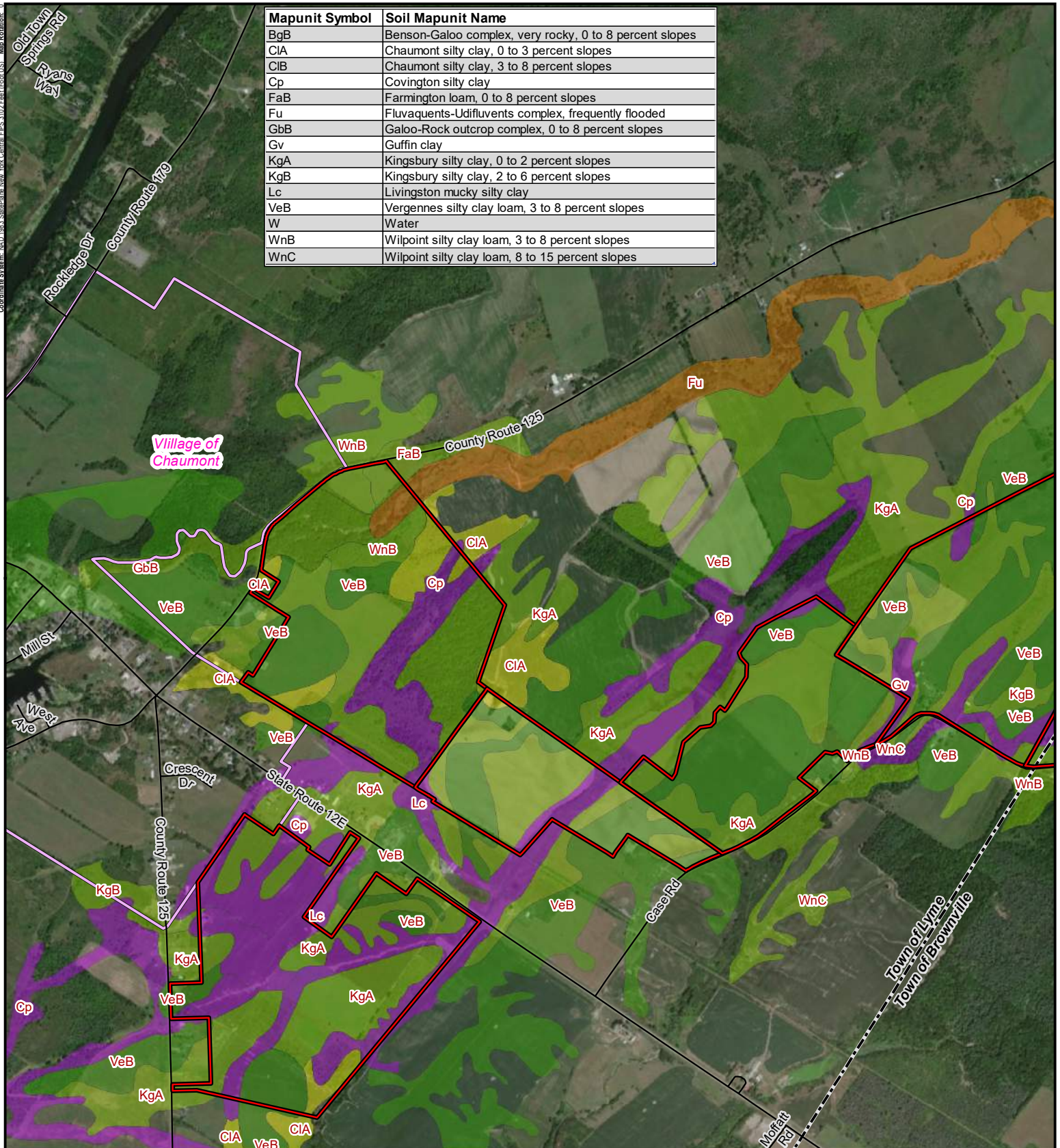
1. BASE MAP IMAGERY FROM ESRI  
\*WORLD STREET MAP\* MAP SERVICE

PROJECT: RIVERSIDE SOLAR LLC	
TOWNS OF LYME & BROWNVILLE	
JEFFERSON COUNTY, NY	
TITLE: <b>SITE LOCATION MAP</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<b>FIGURE 1</b>	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD 1983, StatePlane, New York Central FIPS 3102 Feet (Foot, US) Map Resolution: 0

Mapunit Symbol	Soil Mapunit Name
BgB	Benson-Galoo complex, very rocky, 0 to 8 percent slopes
CIA	Chaumont silty clay, 0 to 3 percent slopes
CIB	Chaumont silty clay, 3 to 8 percent slopes
Cp	Covington silty clay
FaB	Farmington loam, 0 to 8 percent slopes
Fu	Fluvaquents-Udifluvents complex, frequently flooded
GbB	Galoo-Rock outcrop complex, 0 to 8 percent slopes
Gv	Guffin clay
KgA	Kingsbury silty clay, 0 to 2 percent slopes
KgB	Kingsbury silty clay, 2 to 6 percent slopes
Lc	Livingston mucky silty clay
VeB	Vergennes silty clay loam, 3 to 8 percent slopes
W	Water
WnB	Wilpoint silty clay loam, 3 to 8 percent slopes
WnC	Wilpoint silty clay loam, 8 to 15 percent slopes



**LEGEND**

- PROJECT AREA
- VILLAGE BOUNDARY
- TOWN BOUNDARY
- HYDRIC RATING (0%)
- HYDRIC RATING (1 TO 8%)
- HYDRIC RATING (9 TO 12%)
- HYDRIC RATING (13 TO 47%)
- HYDRIC RATING (48 TO 100%)

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE.

1:18,000  
1" = 1,500'

0 1,000 2,000 Feet

PROJECT: RIVERSIDE SOLAR LLC  
TOWNS OF LYME & BROWNVILLE  
JEFFERSON COUNTY, NY

TITLE: SOILS MAP

DRAWN BY: D. BARLEY PROJECT NO.: 373222

CHECKED BY: R. SPRING

APPROVED BY: S. KRANES

DATE: MARCH 2021

**FIGURE 2**  
SHEET 1 OF 2

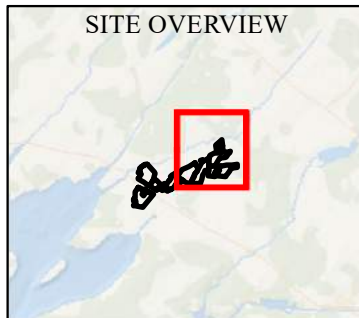
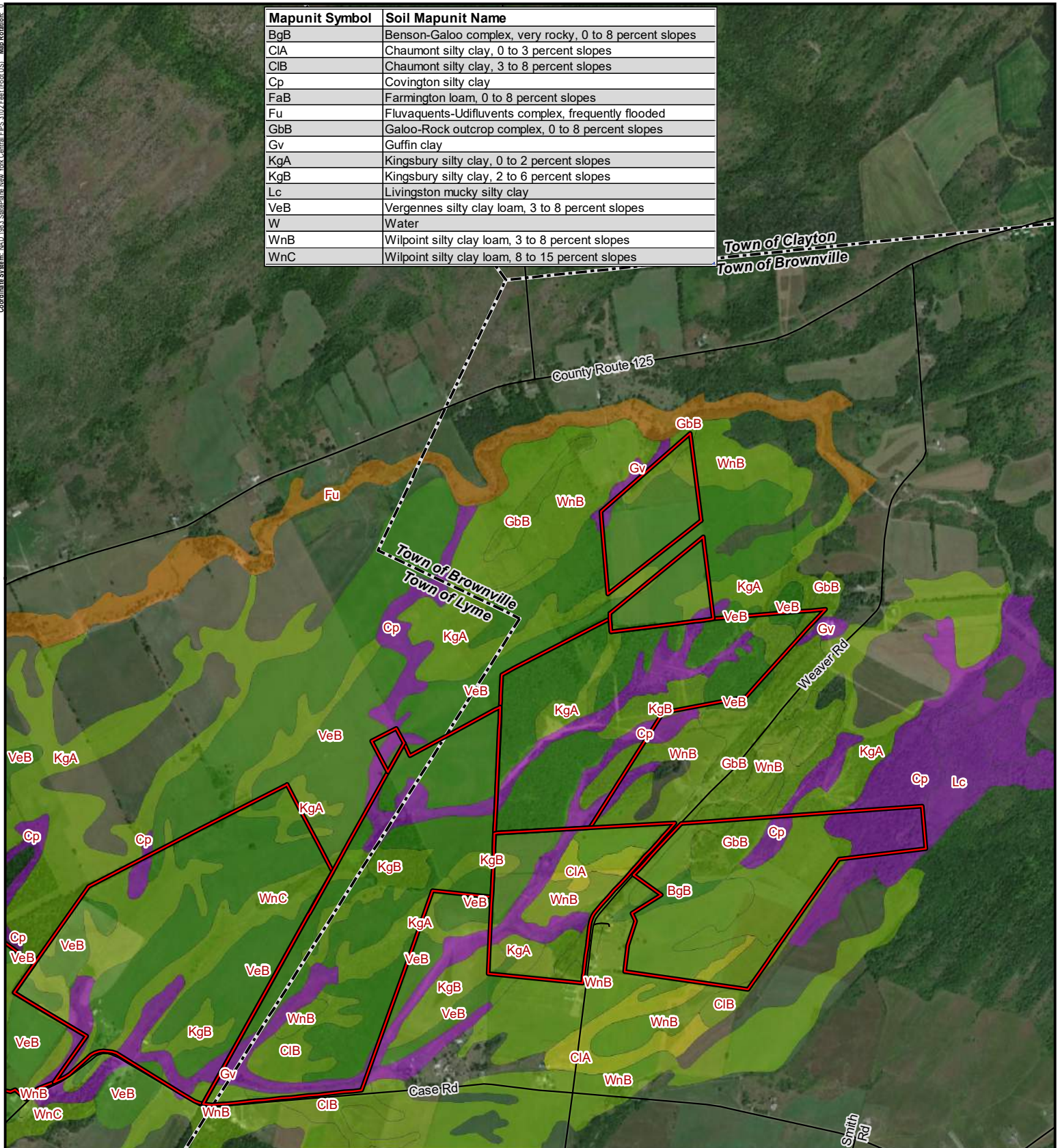
**TRC**  
215 GREENFIELD PKWY, STE 102  
LIVERPOOL, NY 13088

**RIVERSIDE SOLAR**



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0

Mapunit Symbol	Soil Mapunit Name
BgB	Benson-Galoo complex, very rocky, 0 to 8 percent slopes
CIA	Chaumont silty clay, 0 to 3 percent slopes
CIB	Chaumont silty clay, 3 to 8 percent slopes
Cp	Covington silty clay
FaB	Farmington loam, 0 to 8 percent slopes
Fu	Fluvaquents-Udifulvents complex, frequently flooded
GbB	Galoo-Rock outcrop complex, 0 to 8 percent slopes
Gv	Guffin clay
KgA	Kingsbury silty clay, 0 to 2 percent slopes
KgB	Kingsbury silty clay, 2 to 6 percent slopes
Lc	Livingston mucky silty clay
VeB	Vergennes silty clay loam, 3 to 8 percent slopes
W	Water
WnB	Wilpoint silty clay loam, 3 to 8 percent slopes
WnC	Wilpoint silty clay loam, 8 to 15 percent slopes



**LEGEND**

- PROJECT AREA
- VILLAGE BOUNDARY
- TOWN BOUNDARY
- HYDRIC RATING (0%)
- HYDRIC RATING (1 TO 8%)
- HYDRIC RATING (9 TO 12%)
- HYDRIC RATING (13 TO 47%)
- HYDRIC RATING (48 TO 100%)

1:18,000  
1" = 1,500'

0 1,000 2,000 Feet

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE.

PROJECT: RIVERSIDE SOLAR LLC  
TOWNS OF LYME & BROWNVILLE  
JEFFERSON COUNTY, NY

TITLE: SOILS MAP

DRAWN BY: D. BARLEY PROJECT NO.: 373222

CHECKED BY: R. SPRING

APPROVED BY: S. KRANES

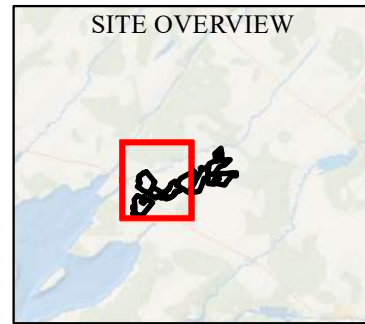
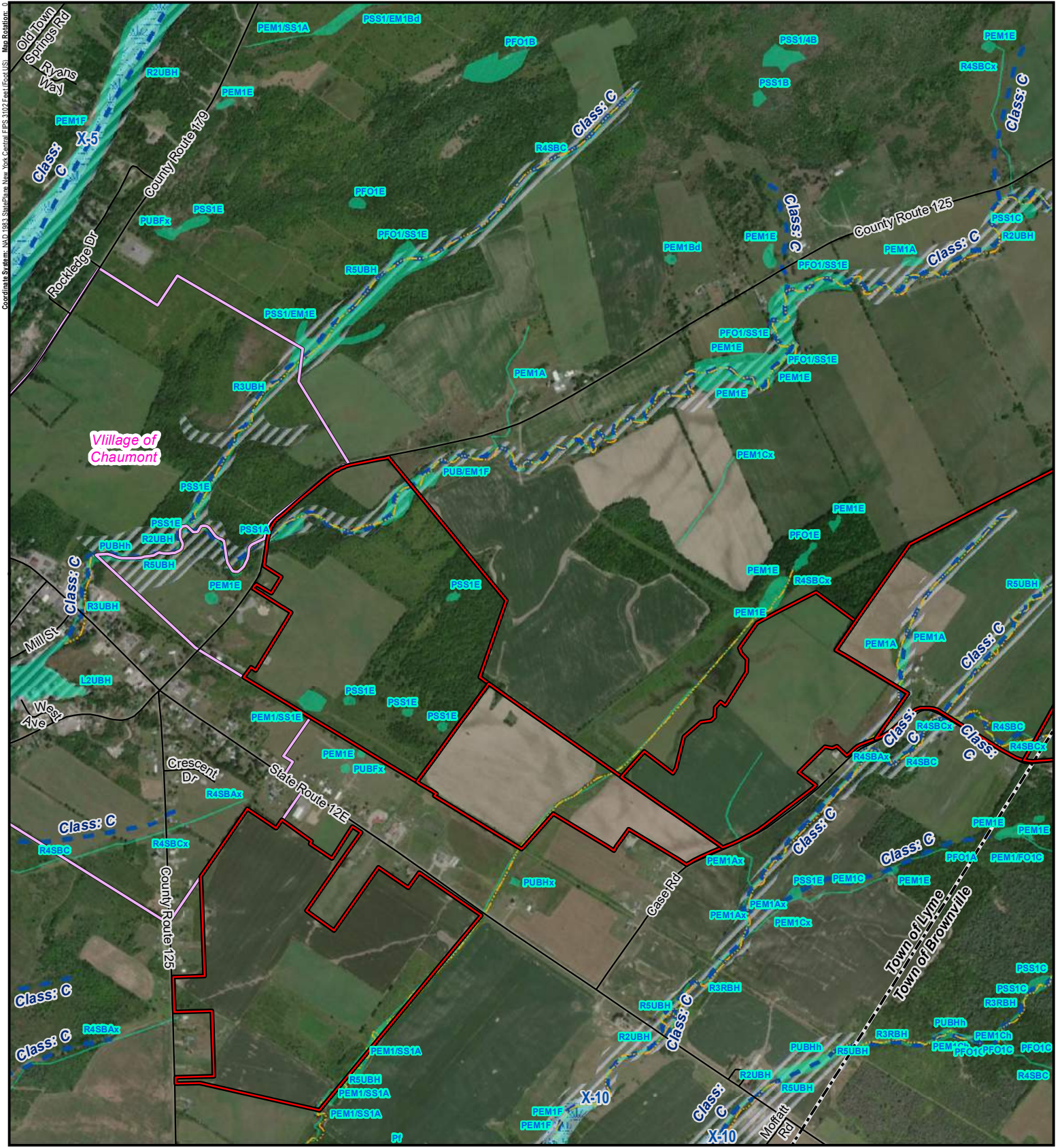
DATE: MARCH 2021

**FIGURE 2**  
SHEET 2 OF 2

**TRC**  
215 GREENFIELD PKWY, STE 102  
LIVERPOOL, NY 13088

**RIVERSIDE SOLAR**





**LEGEND**

- PROJECT AREA
- VILLAGE BOUNDARY
- TOWN BOUNDARY
- WATERBODIES (NHD)
- WATERBODIES (NYSDEC)
- WETLANDS (NYSDEC)
- WETLANDS (NWI)
- 100-YEAR FLOODPLAIN (FEMA)

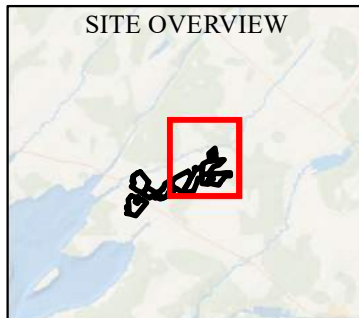
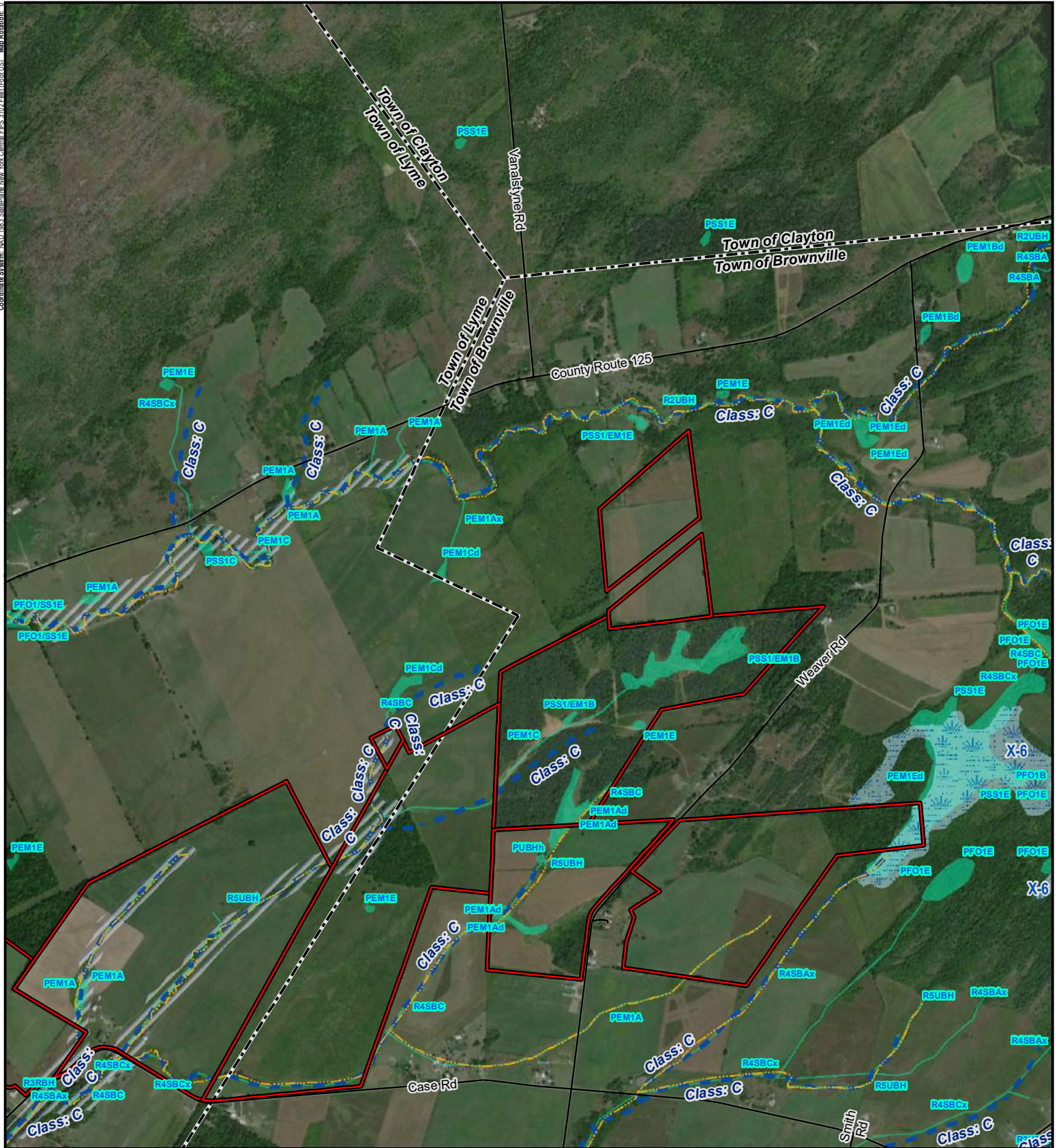
1:18,000  
1" = 1,500'

0 1,000 2,000 Feet

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE  
2. DATA SOURCES: NYSGIS, FEMA, NYSDEC, NWI

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY		
TITLE: FEDERAL & STATE MAPPED RESOURCES		
DRAWN BY: D. BARLEY	PROJECT NO.: 373222	
CHECKED BY: R. SPRING		
APPROVED BY: S. KRANES		
DATE: MARCH 2021		
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088		<b>FIGURE 3</b> SHEET 1 OF 2 





**LEGEND**

- PROJECT AREA
- VILLAGE BOUNDARY
- TOWN BOUNDARY
- WATERBODIES (NHD)
- WATERBODIES (NYSDEC)
- WETLANDS (NYSDEC)
- WETLANDS (NWI)
- 100-YEAR FLOODPLAIN (FEMA)

1:18,000

1" = 1,500'

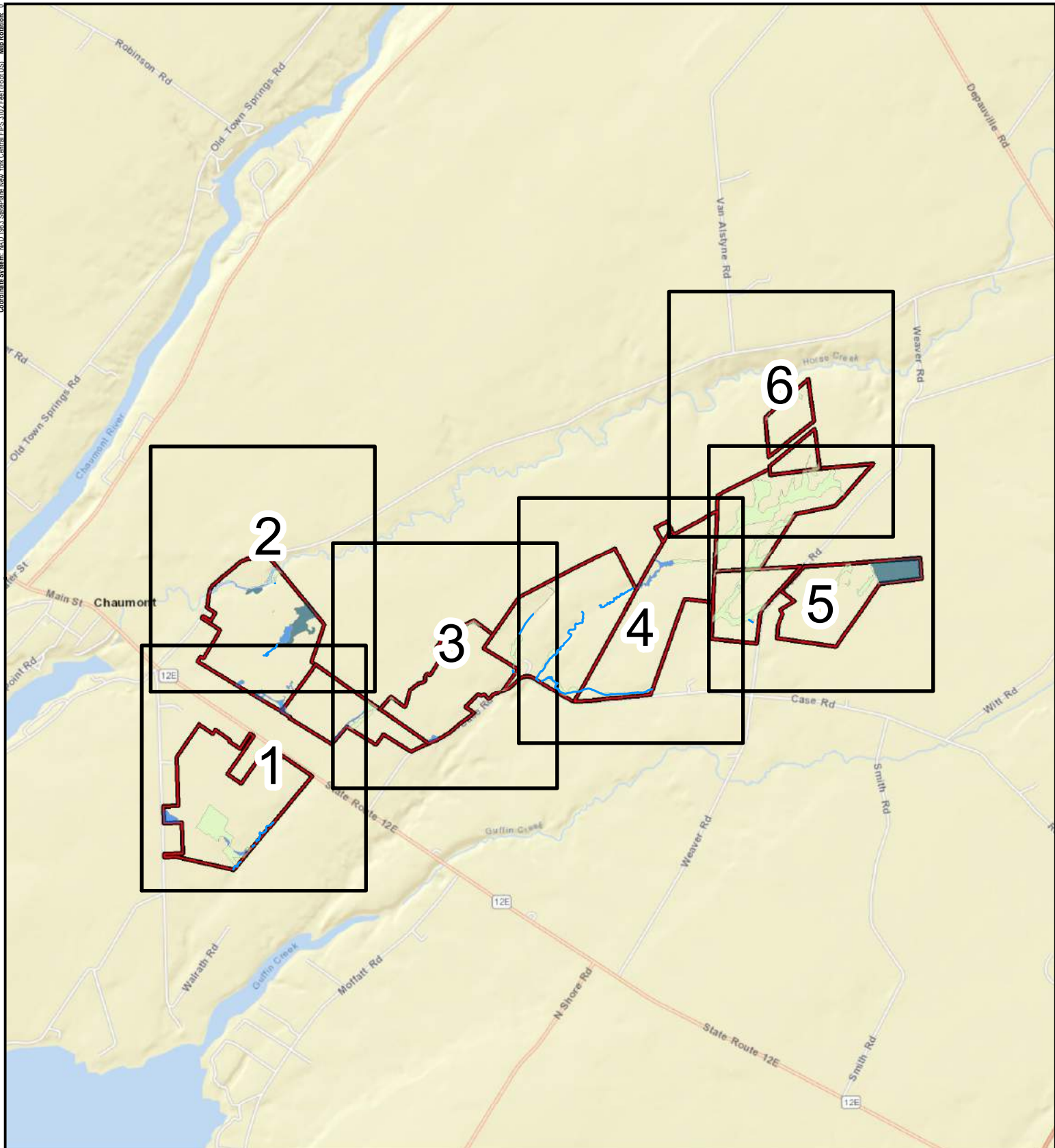
0 1,000 2,000 Feet

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE.  
2. DATA SOURCES: NYSGIS, FEMA, NYSDEC, NWI.

<p>PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME &amp; BROWNVILLE JEFFERSON COUNTY, NY</p>	
<p>TITLE: <b>FEDERAL &amp; STATE MAPPED RESOURCES</b></p>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	<p><b>FIGURE 3</b> SHEET 2 OF 2</p>



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 East (Foot US) Map Resolution: 0



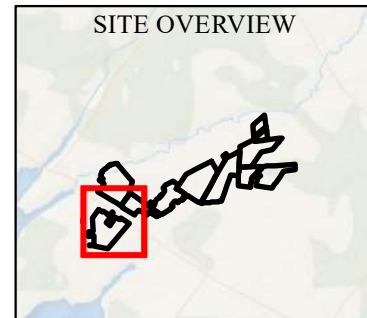
**LEGEND**

- PROJECT AREA
- SHEET INDEX

1. BASEMAP IMAGERY FROM ESRI  
 "WORLD STREET MAP" MAP SERVICE.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

0 2,000  
 1:37,482 1" = 3,124'

<b>PROJECT</b>	
RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
<b>TITLE</b>	
DELINEATED RESOURCES BY TYPE	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
PROJECT NO.:	373222
<b>FIGURE 4</b>	
<b>SHEET INDEX</b>	
4,000 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND BOUNDARY LINE
VILLAGE BOUNDARY	DELINEATED STREAM LINE
TOWN BOUNDARY	DELINEATED PEM WETLAND
USACE WETLAND PLOT	DELINEATED PSS WETLAND
USACE UPLAND PLOT	DELINEATED PFO WETLAND
STREAM PLOT	

1. BASEMAP IMAGERY FROM ESRI  
 \*WORLD IMAGERY\* MAP SERVICE  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:8,000 1" = 667'

0 250 500 Feet

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY TYPE**

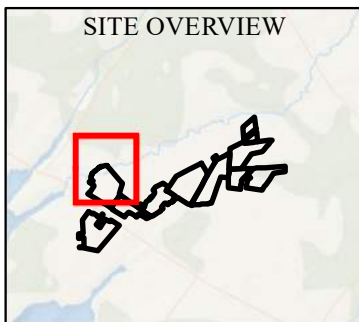
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 4**  
 SHEET 1 OF 6

TRC  
 215 GREENFIELD PKWY, STE 102  
 LIVERPOOL, NY 13088

RIVERSIDE SOLAR





**LEGEND**

PROJECT AREA	DELINEATED WETLAND BOUNDARY LINE
VILLAGE BOUNDARY	DELINEATED STREAM LINE
TOWN BOUNDARY	DELINEATED SURFACE WATER
USACE WETLAND PLOT	DELINEATED PEM WETLAND
USACE UPLAND PLOT	DELINEATED PSS WETLAND
STREAM PLOT	DELINEATED PFO WETLAND
	DELINEATED PUB WETLAND

1. BASEMAP IMAGERY FROM ESRI  
 "WORLD IMAGERY" MAP SERVICE  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC

1:8,000 1" = 667'

0 250 500 Feet

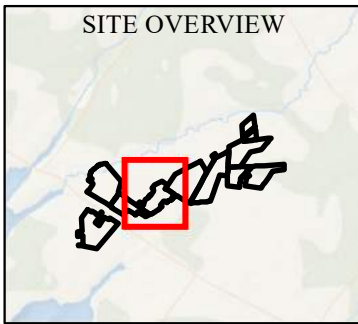
PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY TYPE**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 4</b> SHEET 2 OF 6
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND BOUNDARY LINE
TOWN BOUNDARY	DELINEATED STREAM LINE
USACE WETLAND PLOT	DELINEATED PEM WETLAND
USACE UPLAND PLOT	DELINEATED PSS WETLAND
CULVERT (TRC)	
STREAM PLOT	

1. BASEMAP IMAGERY FROM ESRI  
 "WORLD IMAGERY" MAP SERVICE  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:8,000 1" = 667'

0 250 500 Feet

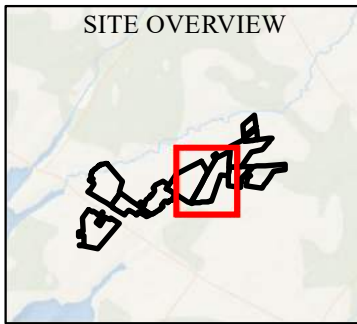
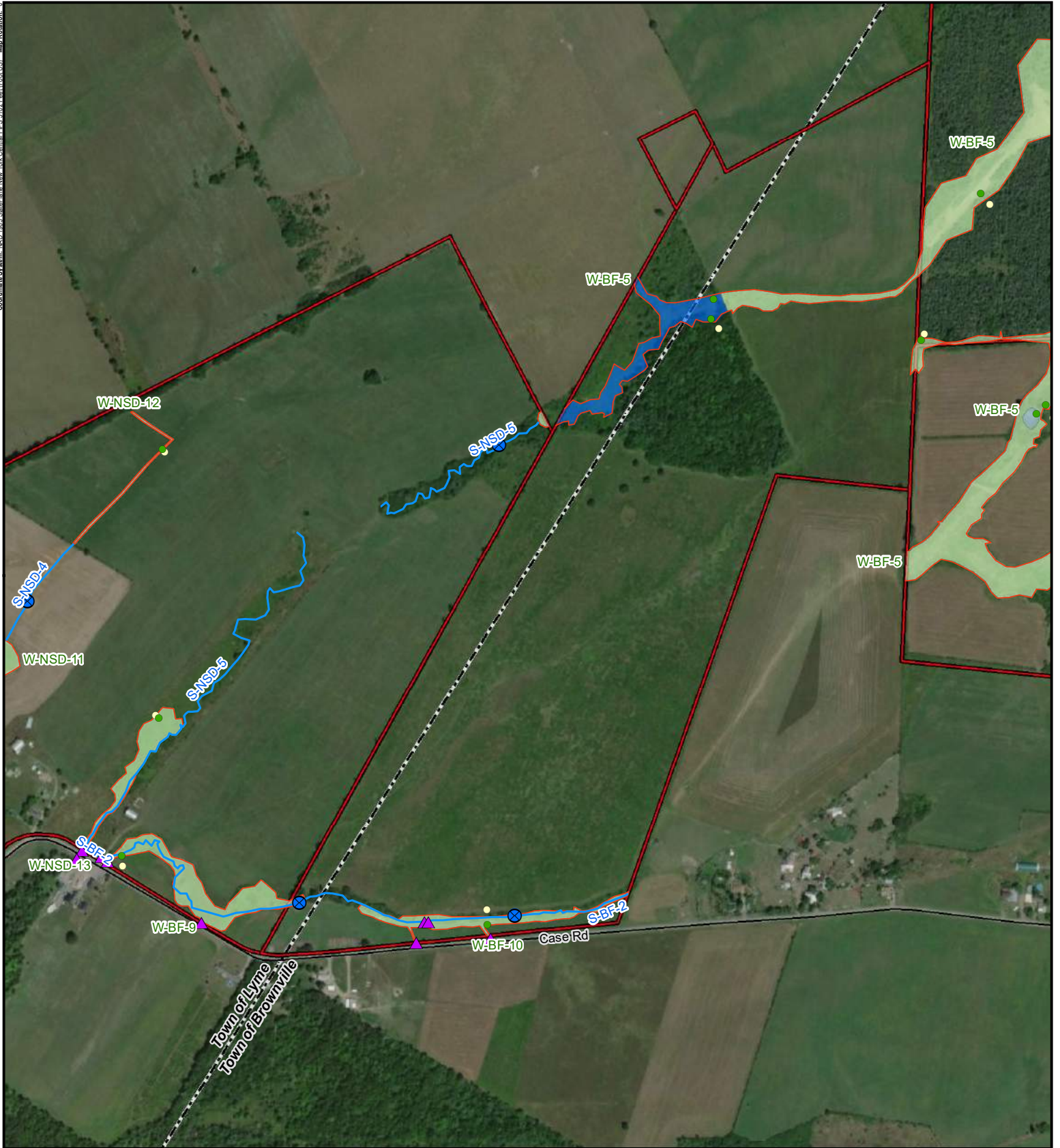
PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: DELINEATED RESOURCES BY TYPE

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 4</b> SHEET 3 OF 6
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR
--	-----------------





**LEGEND**

PROJECT AREA	DELINEATED WETLAND BOUNDARY LINE
TOWN BOUNDARY	DELINEATED STREAM LINE
USACE WETLAND PLOT	DELINEATED PEM WETLAND
USACE UPLAND PLOT	DELINEATED PSS WETLAND
CULVERT (TRC)	DELINEATED PUB WETLAND
STREAM PLOT	

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE  
2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:8,000 1" = 667'

0 250 500 Feet

PROJECT: RIVERSIDE SOLAR LLC  
TOWNS OF LYME & BROWNVILLE  
JEFFERSON COUNTY, NY

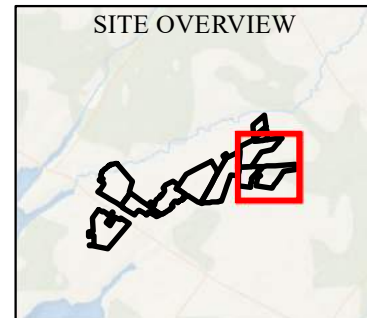
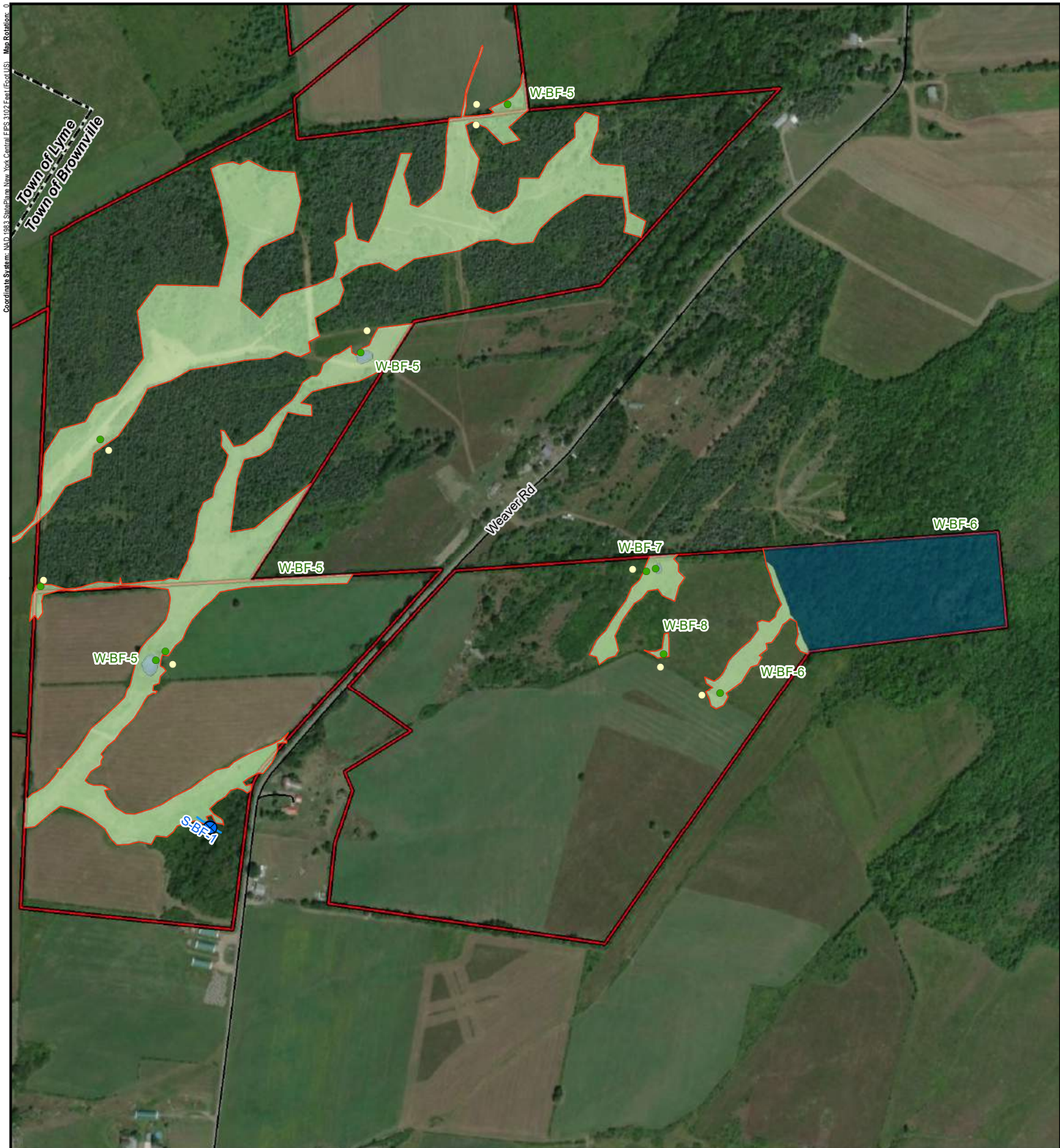
TITLE: DELINEATED RESOURCES BY TYPE

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 4**  
SHEET 4 OF 6

215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND BOUNDARY LINE
TOWN BOUNDARY	DELINEATED STREAM LINE
USACE WETLAND PLOT	DELINEATED PEM WETLAND
USACE UPLAND PLOT	DELINEATED PFO WETLAND
STREAM PLOT	DELINEATED PUB WETLAND

1. BASEMAP IMAGERY FROM ESRI  
 \*WORLD IMAGERY\* MAP SERVICE  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:8,000 1" = 667'

0 250 500 Feet

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY TYPE**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

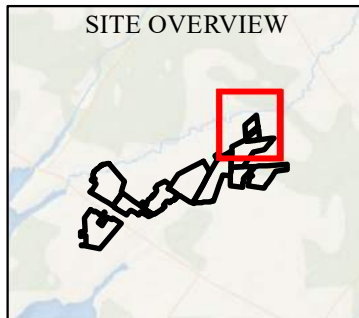
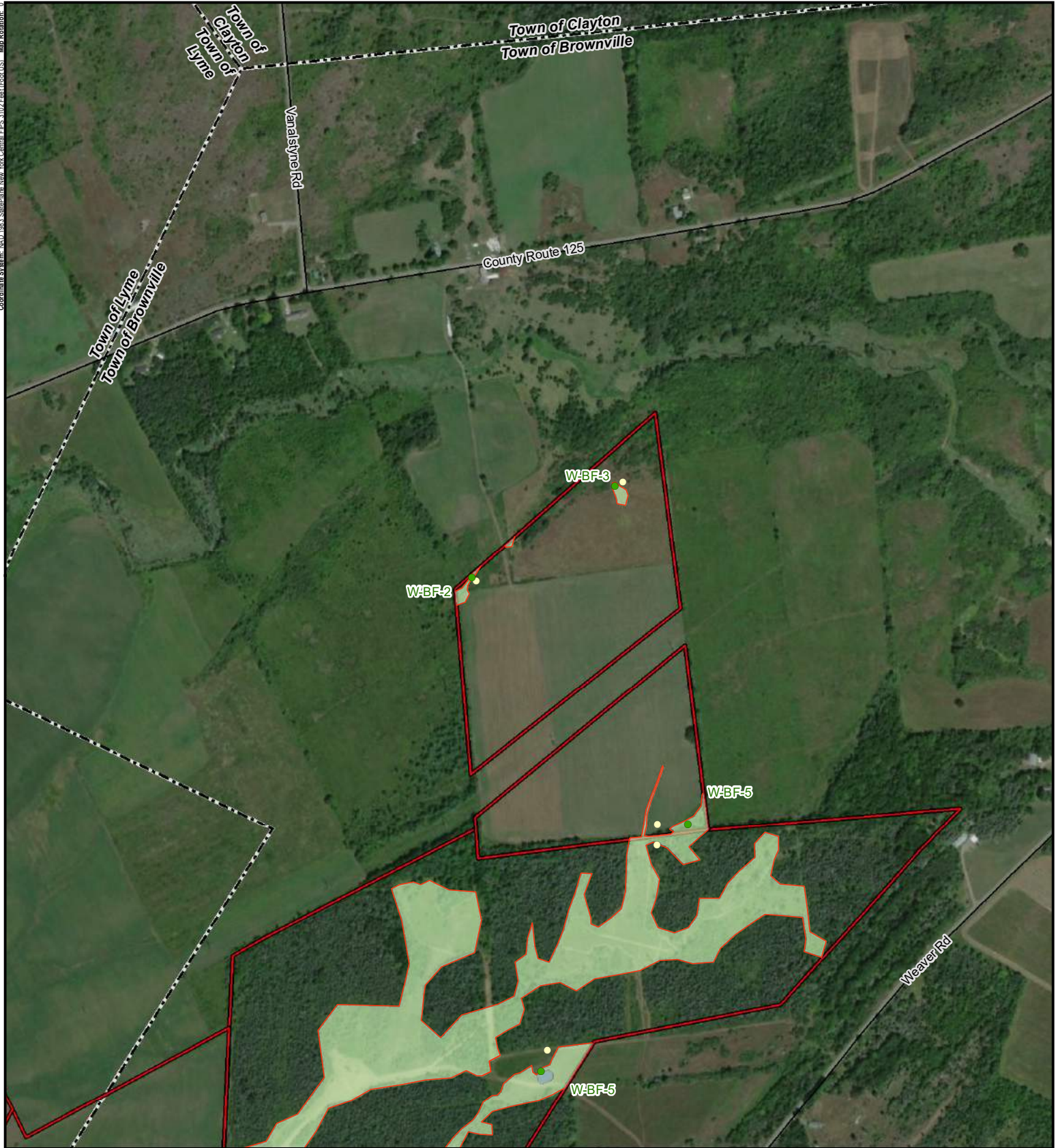
**FIGURE 4**  
SHEET 5 OF 6

TRC  
 215 GREENFIELD PKWY, STE 102  
 LIVERPOOL, NY 13088

RIVERSIDE SOLAR

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0





**LEGEND**

- PROJECT AREA
- TOWN BOUNDARY
- USACE WETLAND PLOT
- USACE UPLAND PLOT
- DELINEATED WETLAND BOUNDARY LINE
- DELINEATED PEM WETLAND
- DELINEATED PUB WETLAND

1. BASEMAP IMAGERY FROM ESRI  
"WORLD IMAGERY" MAP SERVICE  
2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

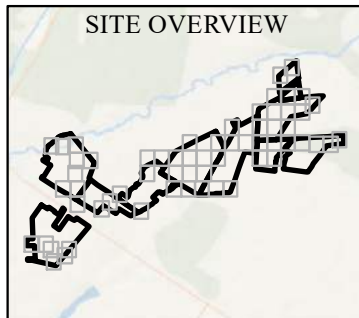
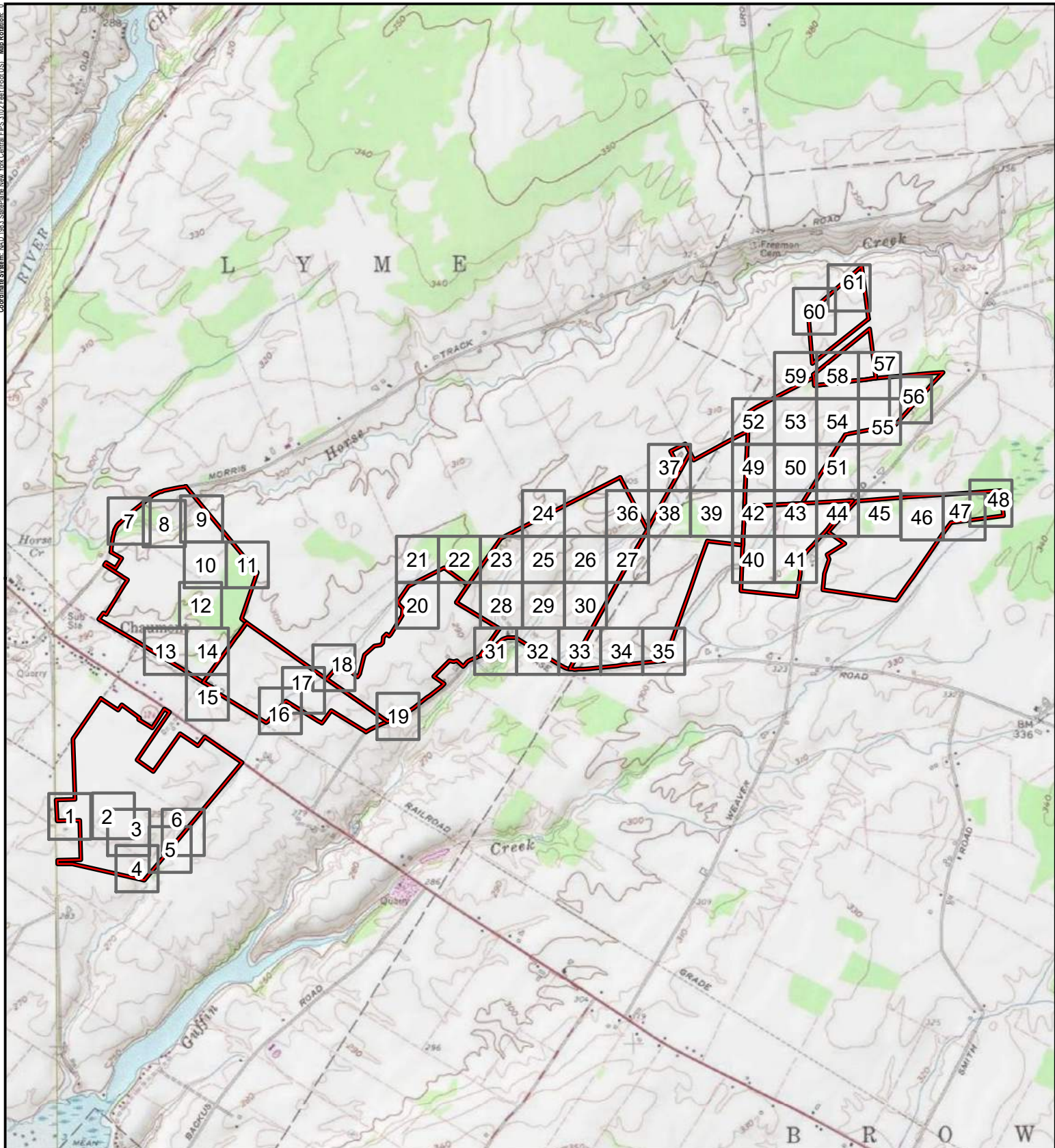
1:8,000 1" = 667'

0 250 500

Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY TYPE</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 4</b> SHEET 6 OF 6
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<p>215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088</p>	





**LEGEND**

- PROJECT AREA
- SHEET INDEX

1. BASEMAP IMAGERY FROM ESRI  
 "USA TOPO MAPS" MAP SERVICE  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC

0 1,000 2,000  
 Feet

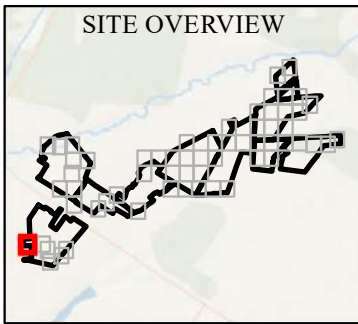
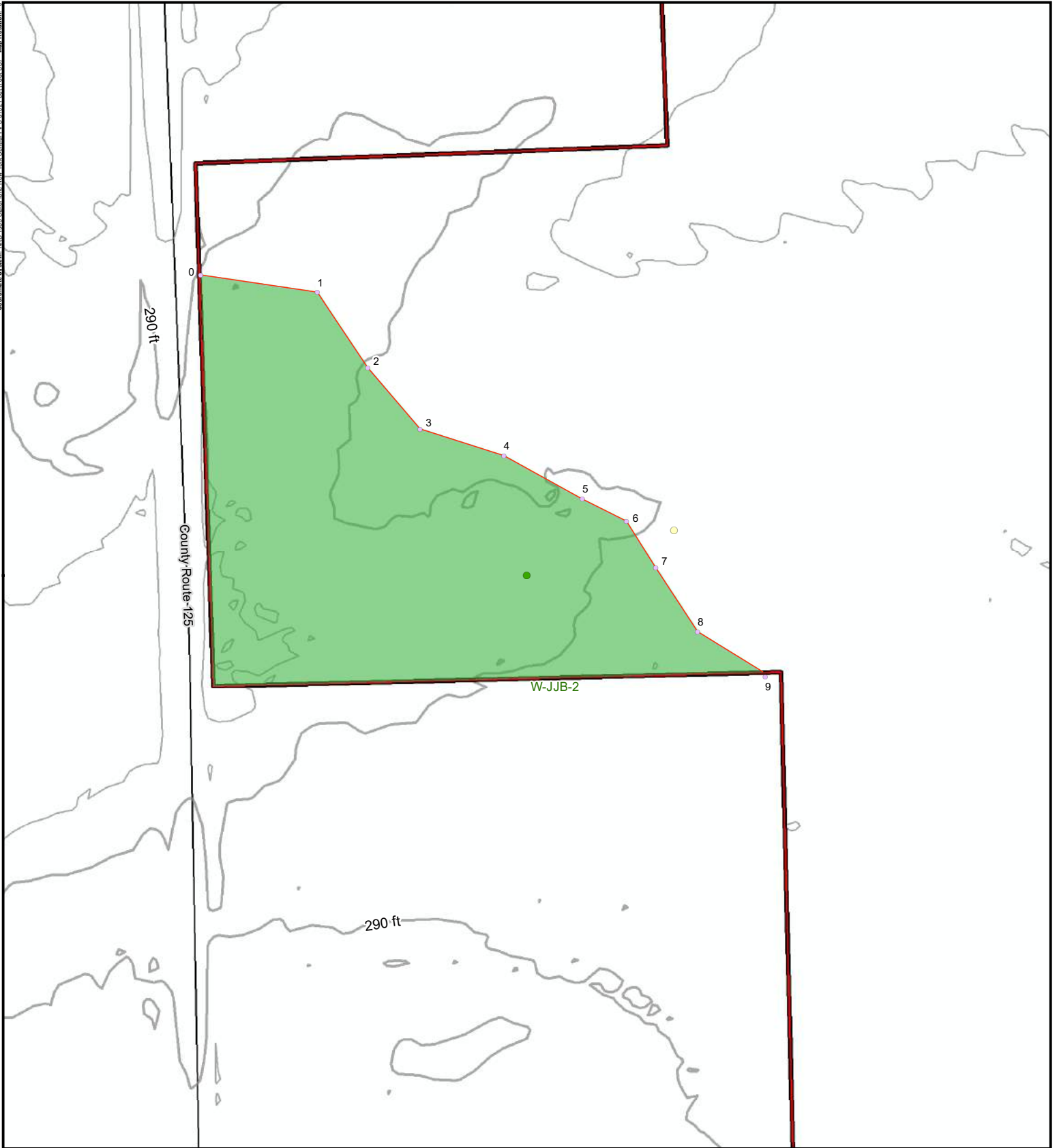
PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
SHEET INDEX

215 GREENFIELD PKWY, STE 102  
LIVERPOOL, NY 13088



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

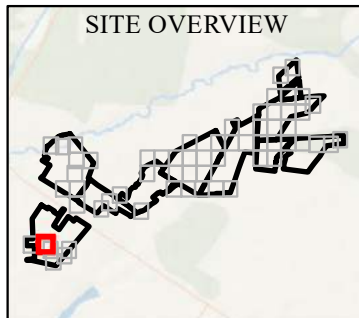
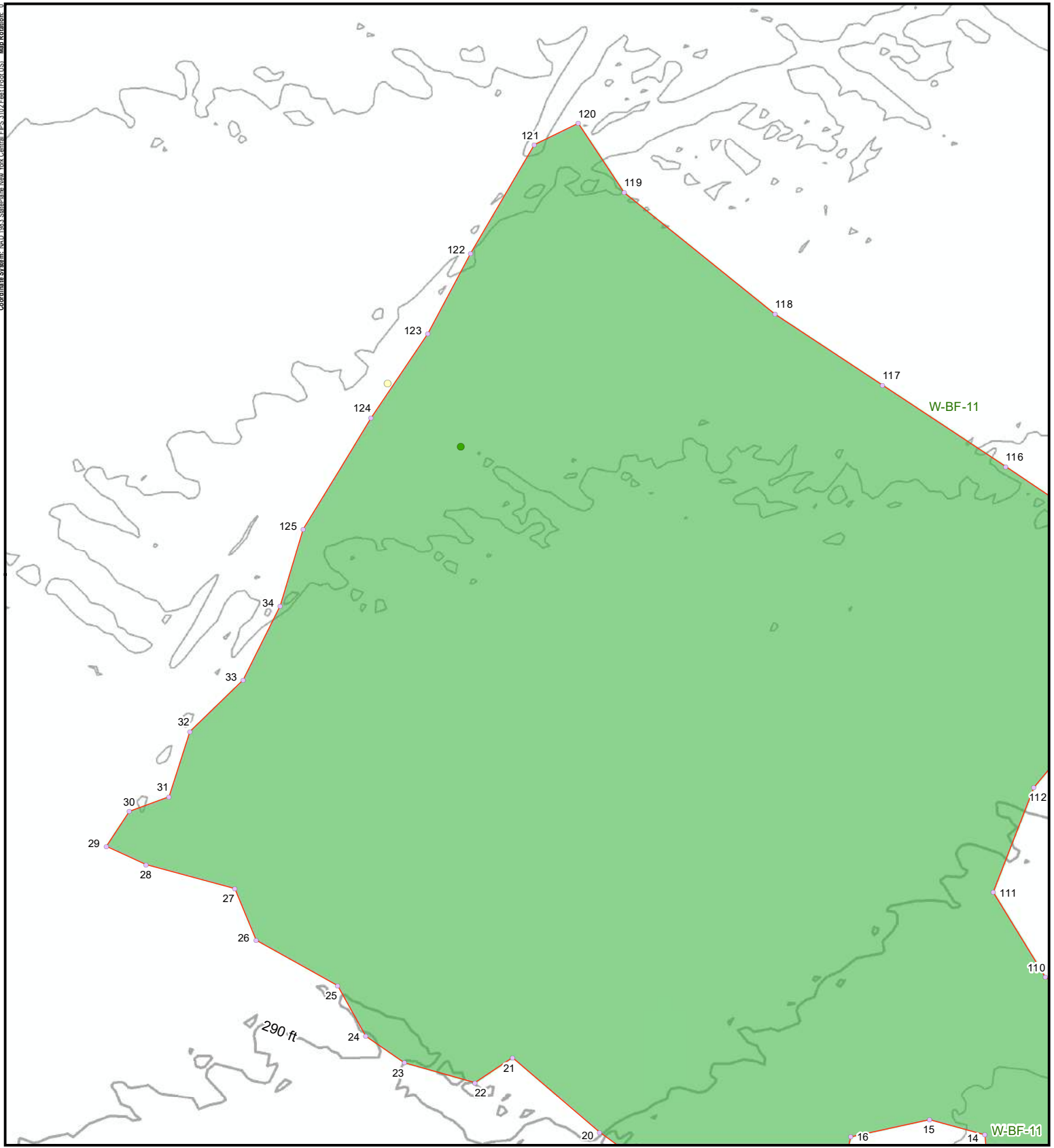
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 1 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
WETLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
UPLAND PLOT	
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

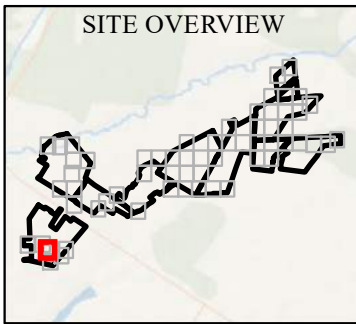
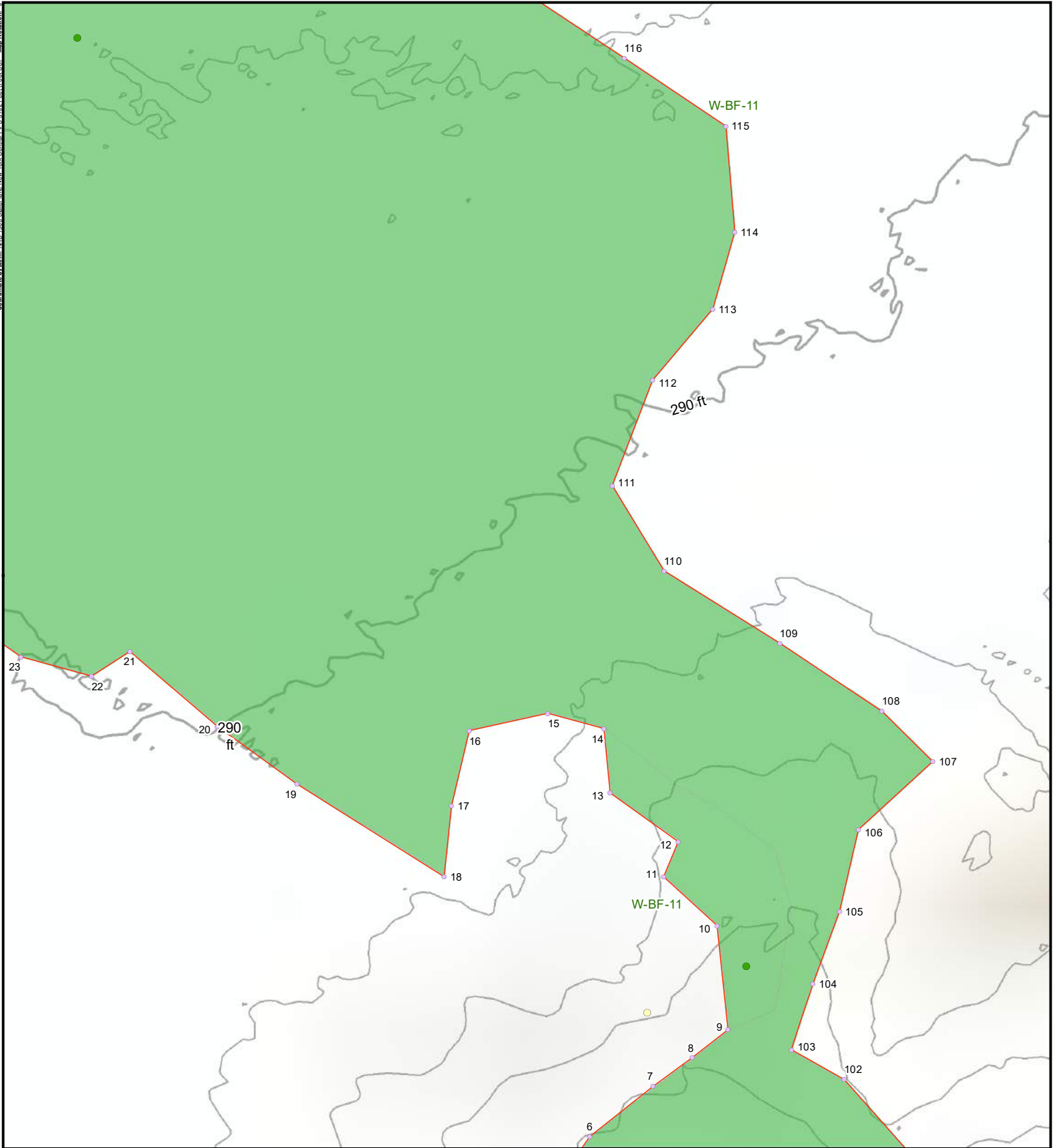
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 2 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

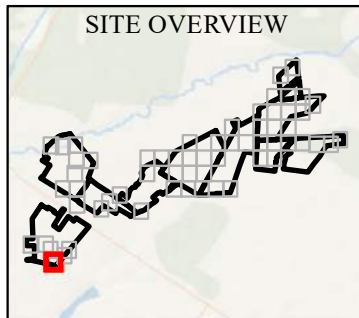
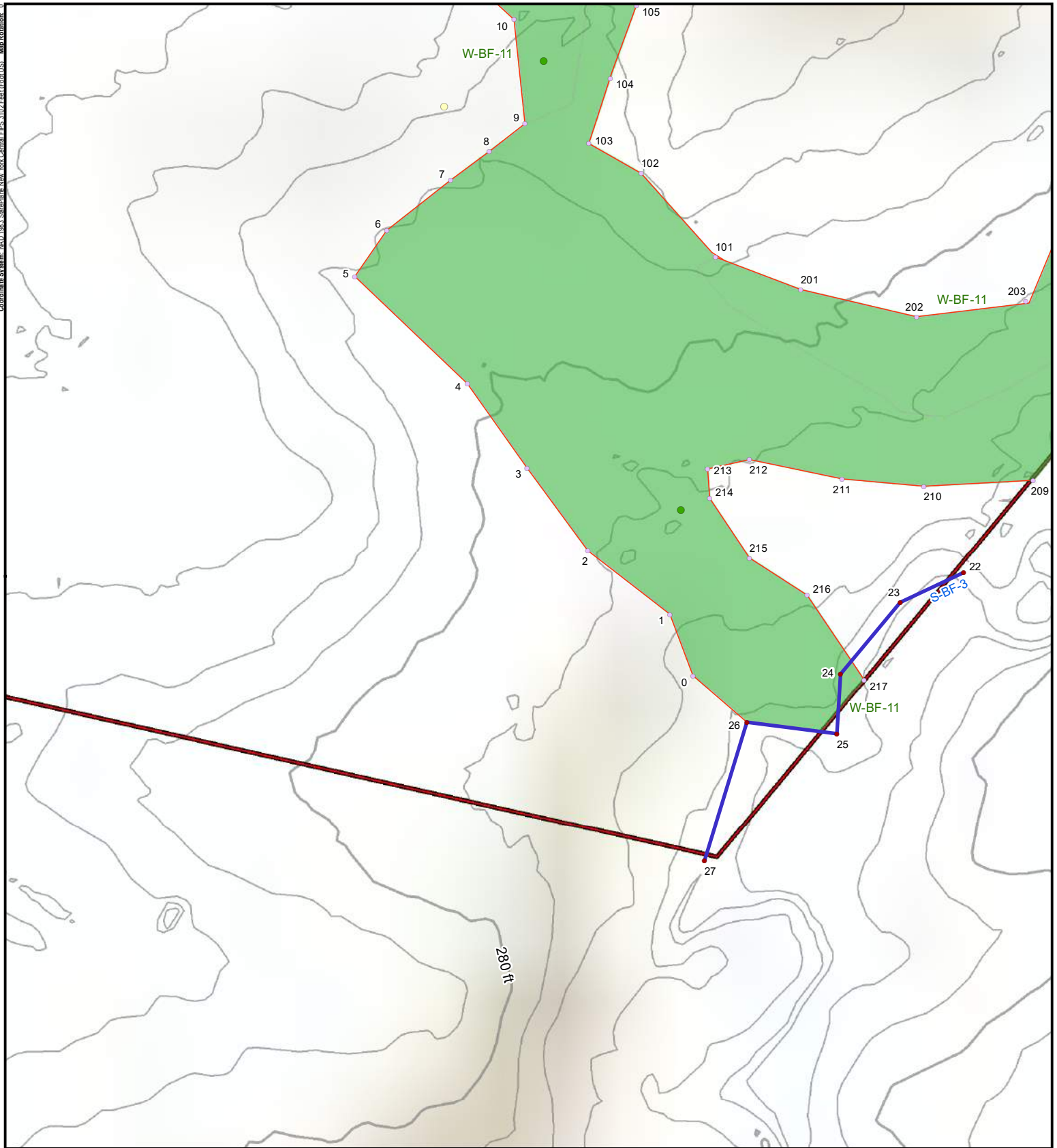
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 3 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

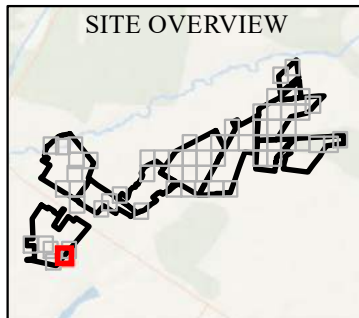
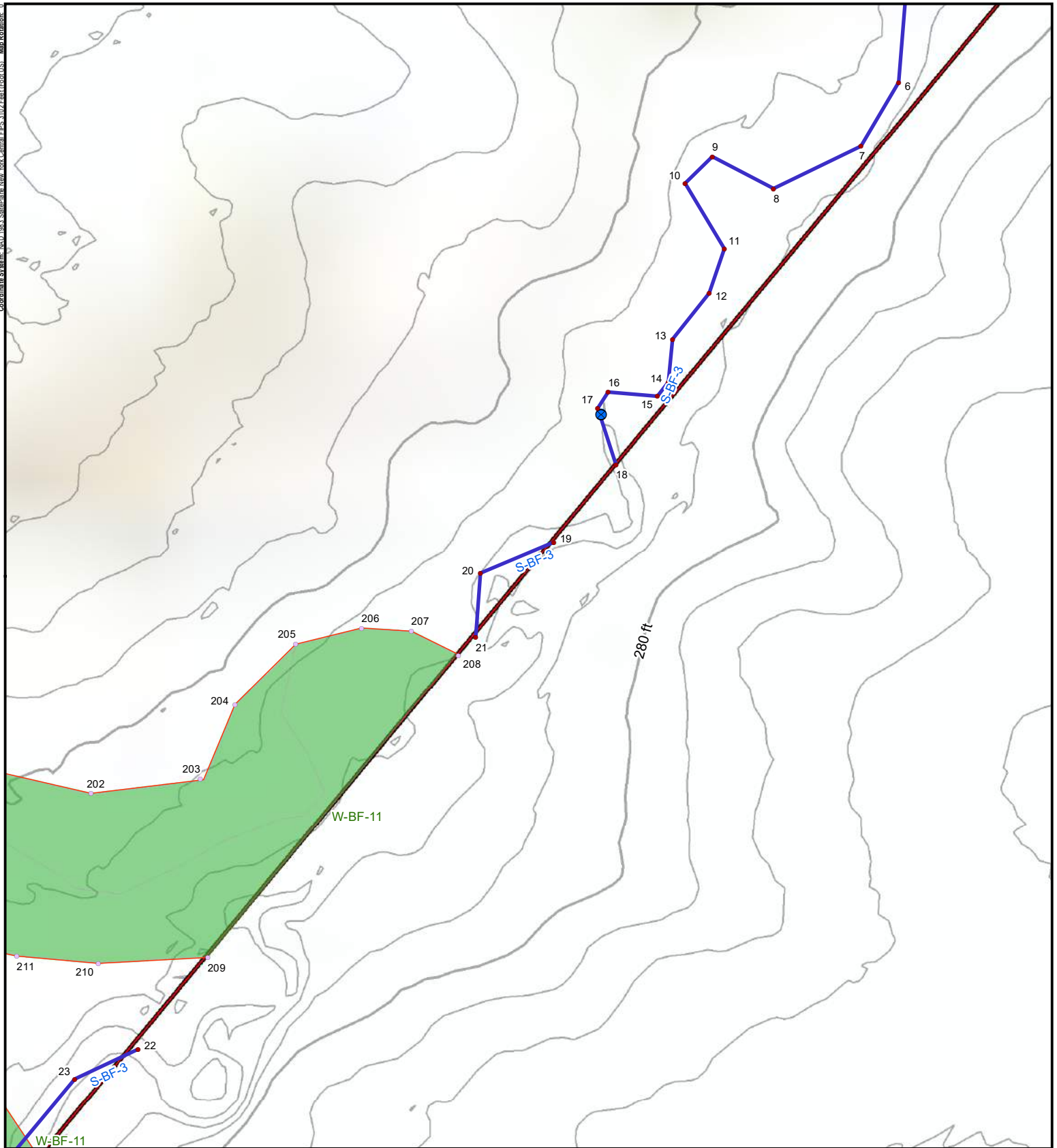
TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 4 OF 61

215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 East (Foot US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
STREAM PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE USACE
DELINEATED WETLAND FLAG	

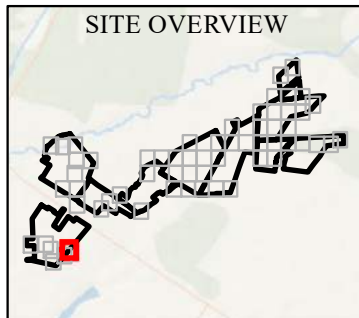
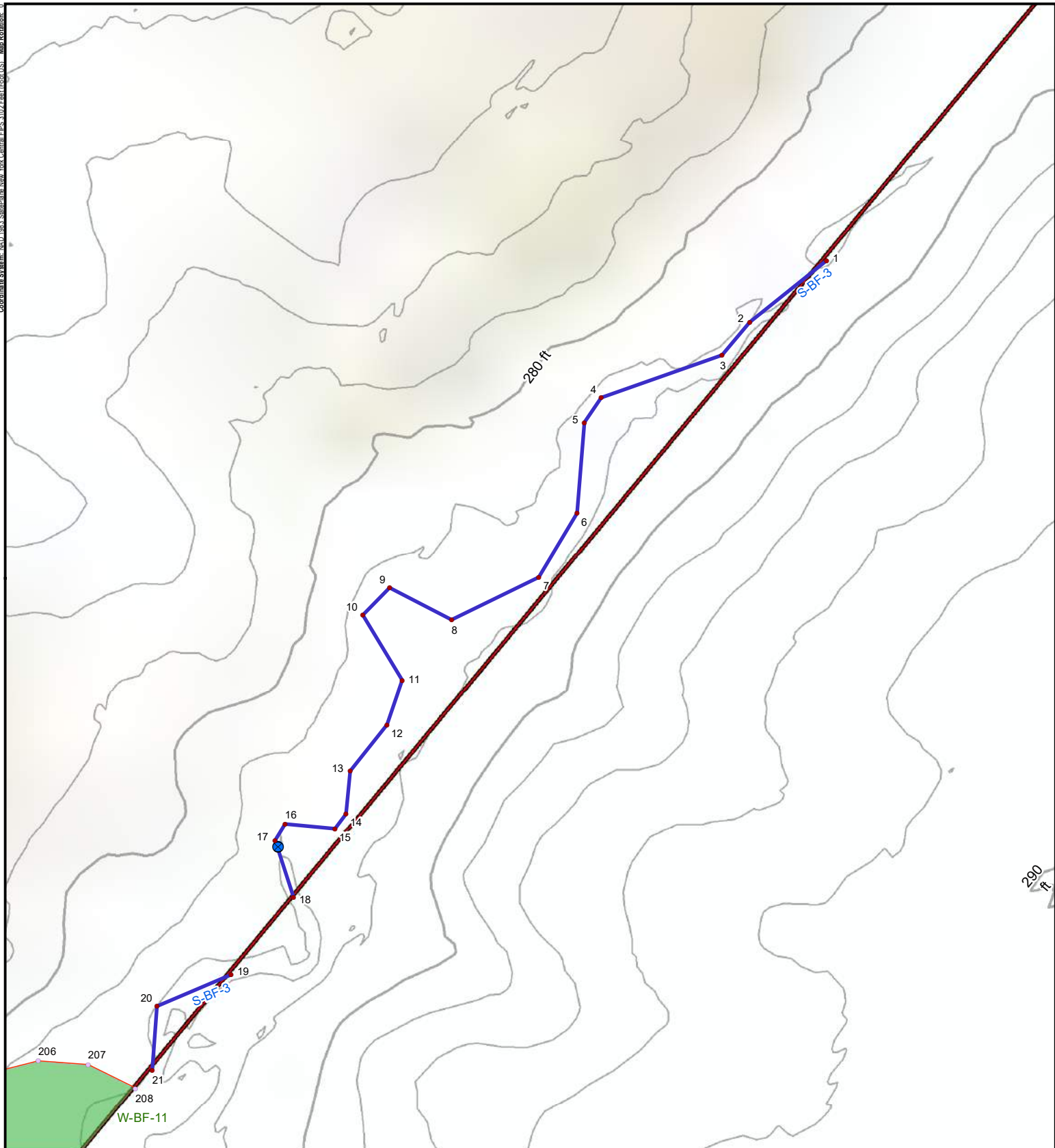
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 5 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
STREAM PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	USACE

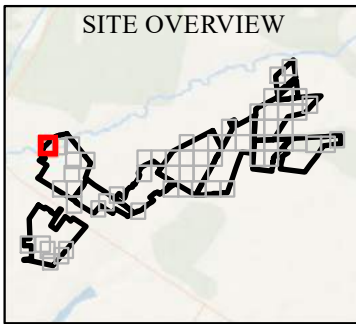
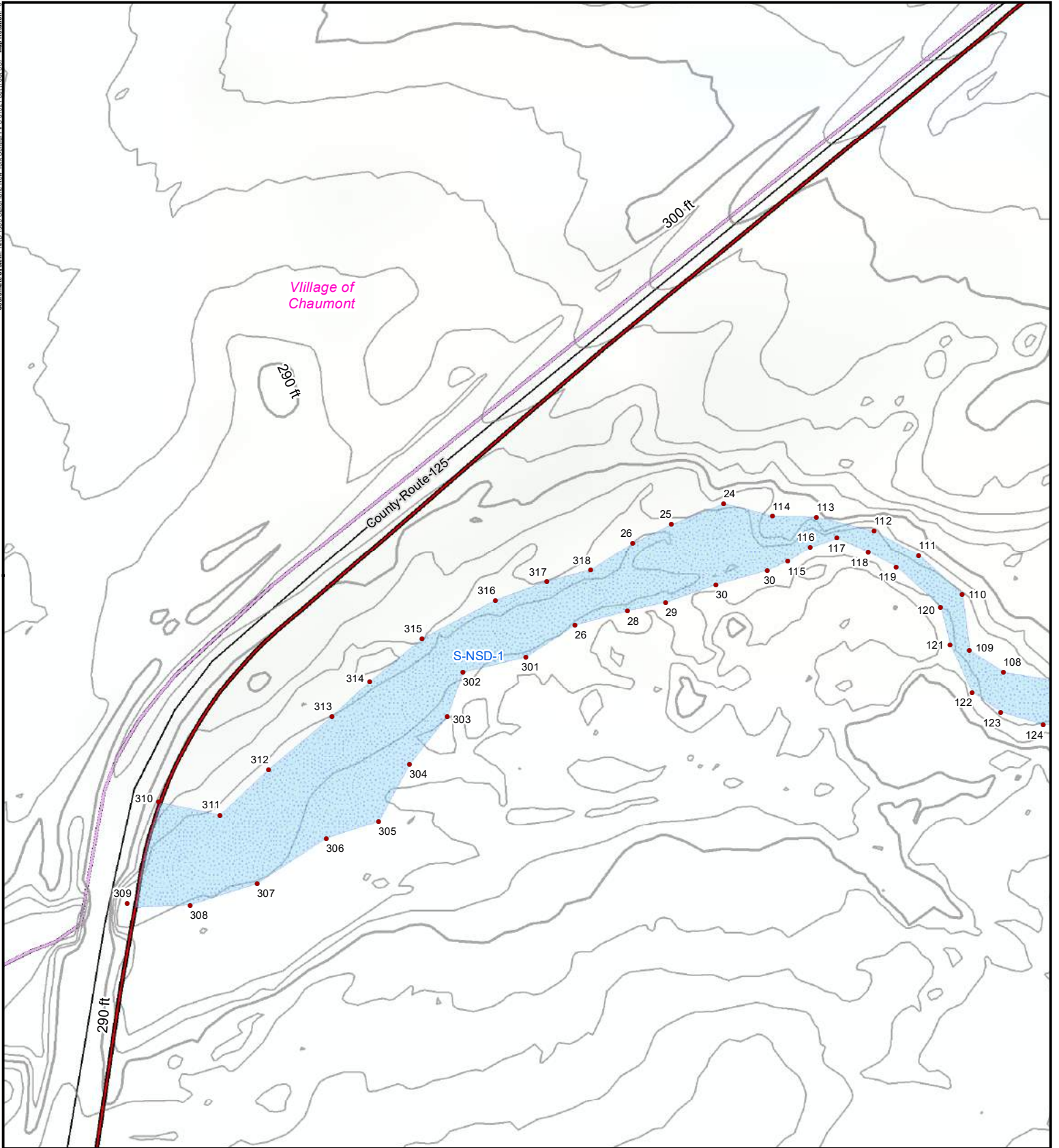
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN™ MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 6 OF 61





**LEGEND**

- PROJECT AREA
- DELINEATED STREAM FLAG
- DELINEATED SURFACE WATER

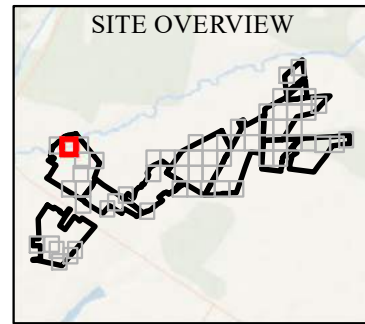
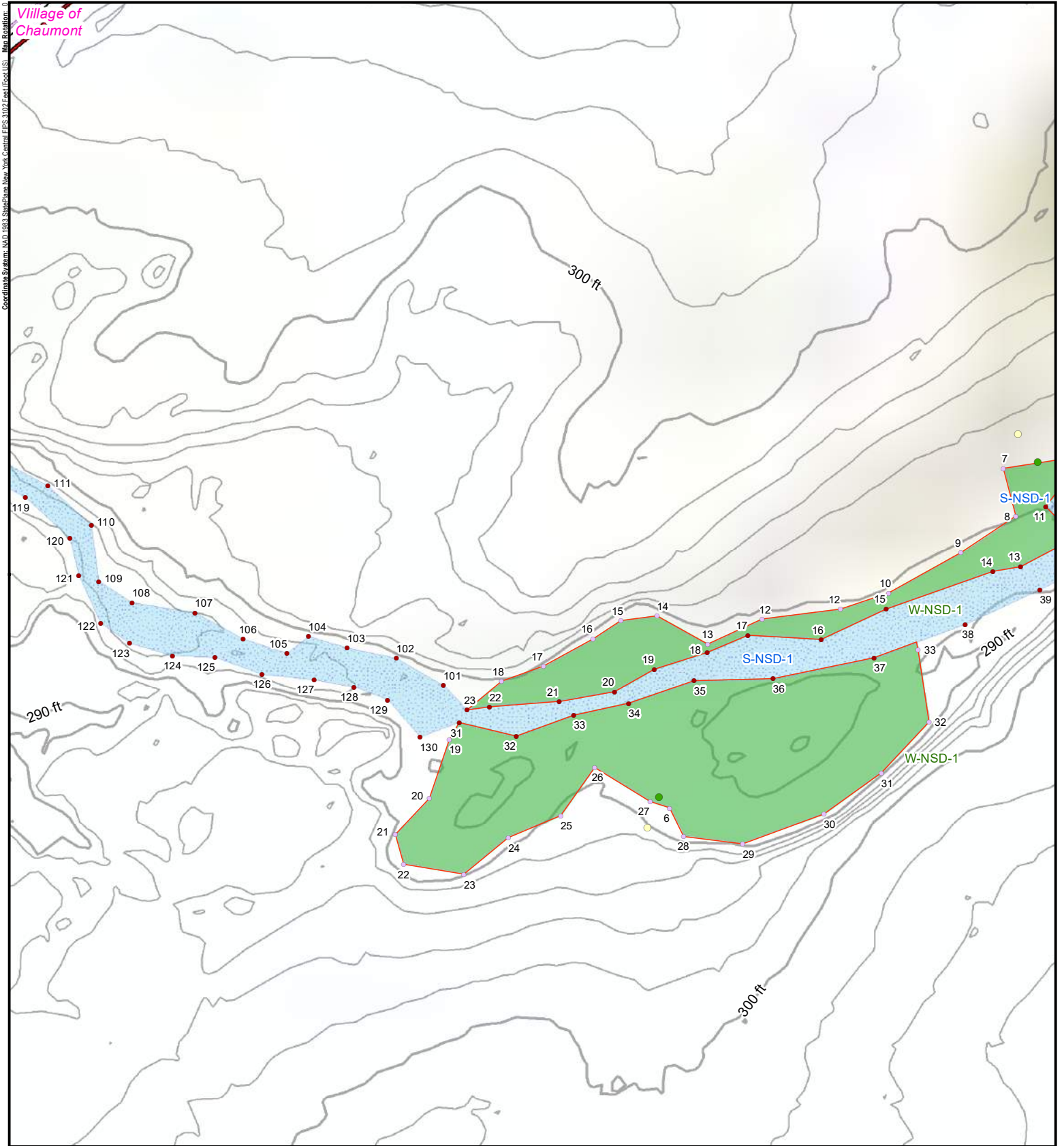
1. BASEMAP IMAGERY FROM ESRI  
 \*TERRAIN\* MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

<b>PROJECT</b>	
RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
<b>TITLE</b>	
DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS	
DRAWN BY:	D. BARLEY PROJECT NO.: 373222
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
 <b>TRC</b> 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	<b>FIGURE 5</b> SHEET 7 OF 61 



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
WETLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
UPLAND PLOT	DELINEATED SURFACE WATER
DELINEATED STREAM FLAG	
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

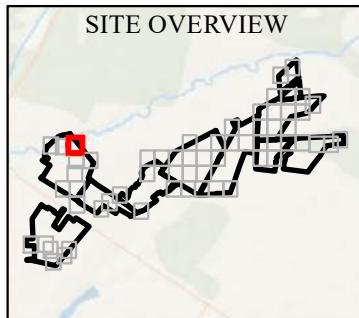
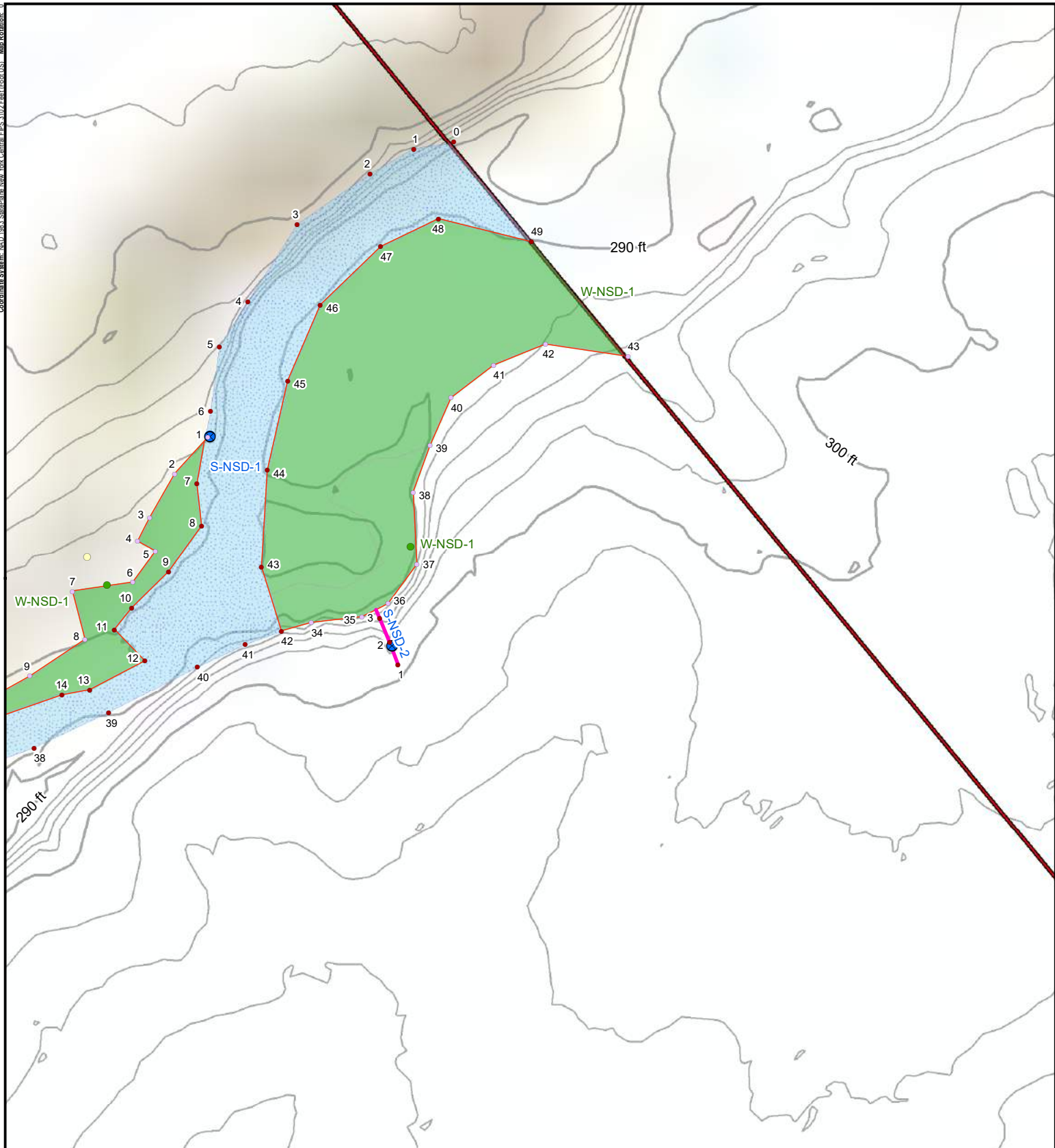
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONS STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 8 OF 61





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
STREAM PLOT	DELINEATED STREAM LINE
DELINEATED STREAM FLAG	NON-JURISDICTIONAL
DELINEATED WETLAND FLAG	DELINEATED SURFACE WATER

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

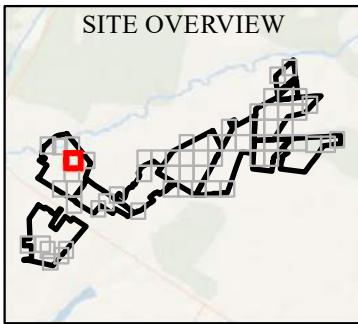
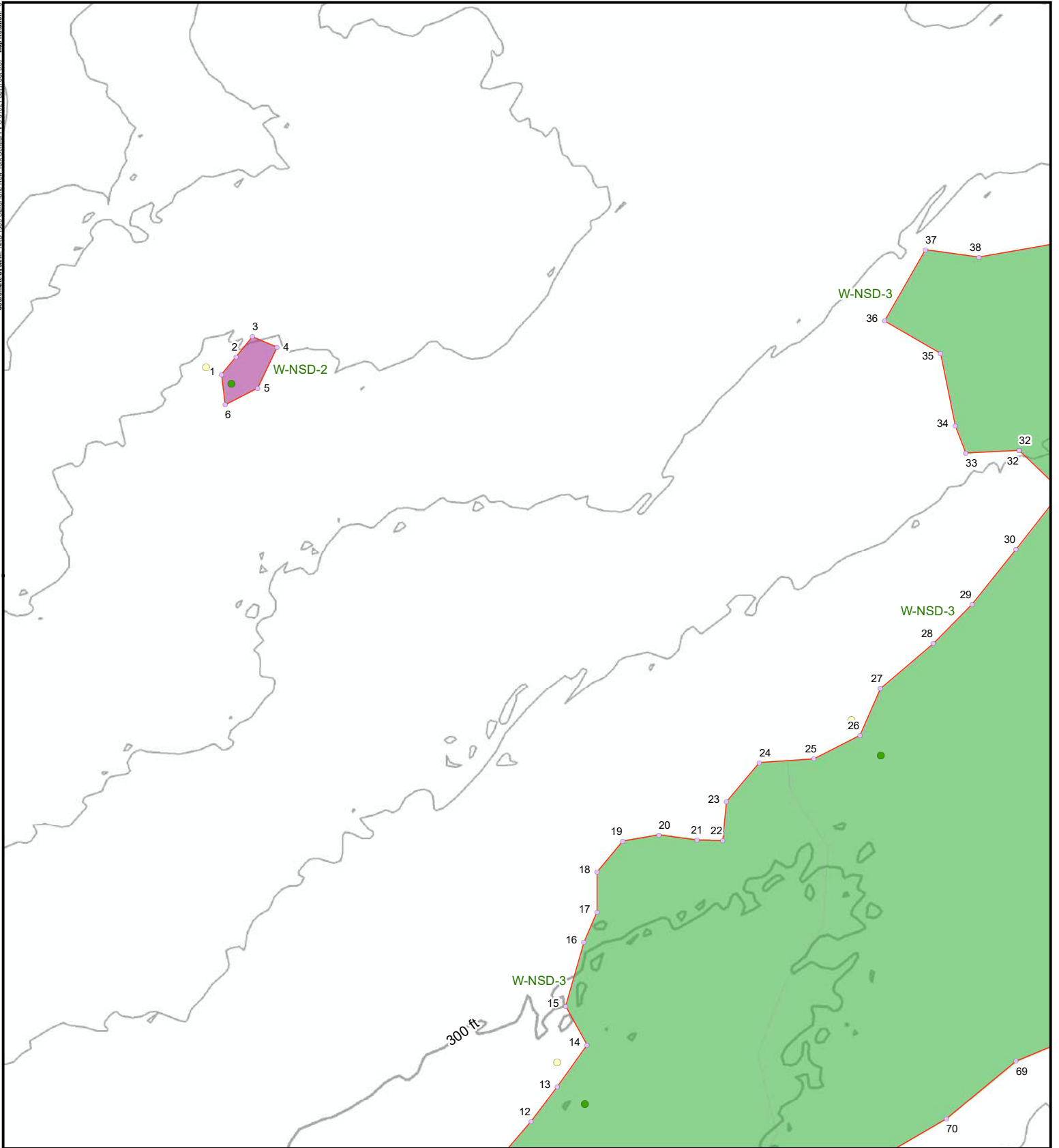
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 9 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) NON-JURISDICTIONAL
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

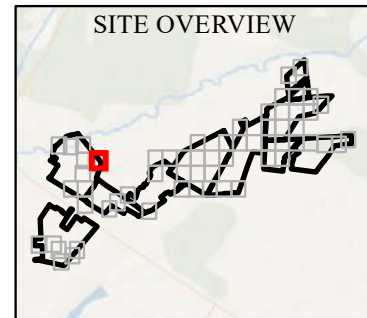
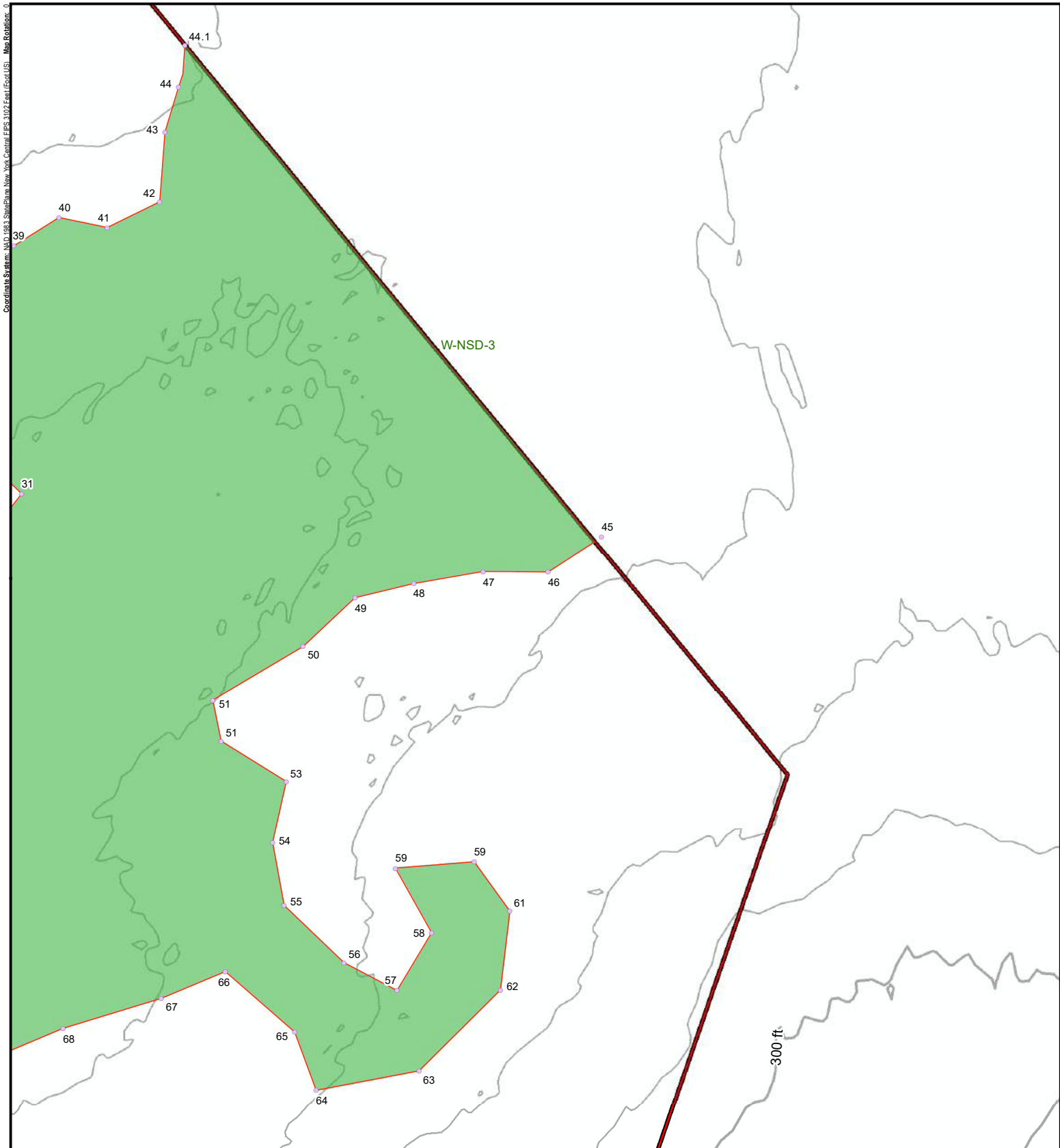
PROJECT: **RIVERSIDE SOLAR LLC**  
**TOWNS OF LYME & BROWNVILLE**  
**JEFFERSON COUNTY, NY**

TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 10 OF 61

 <b>TRC</b> 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
---	--



**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND (TRC)
- DELINEATED WETLAND FLAG
- USACE
- DELINEATED WETLAND BOUNDARY LINE

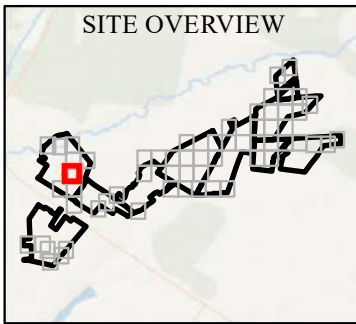
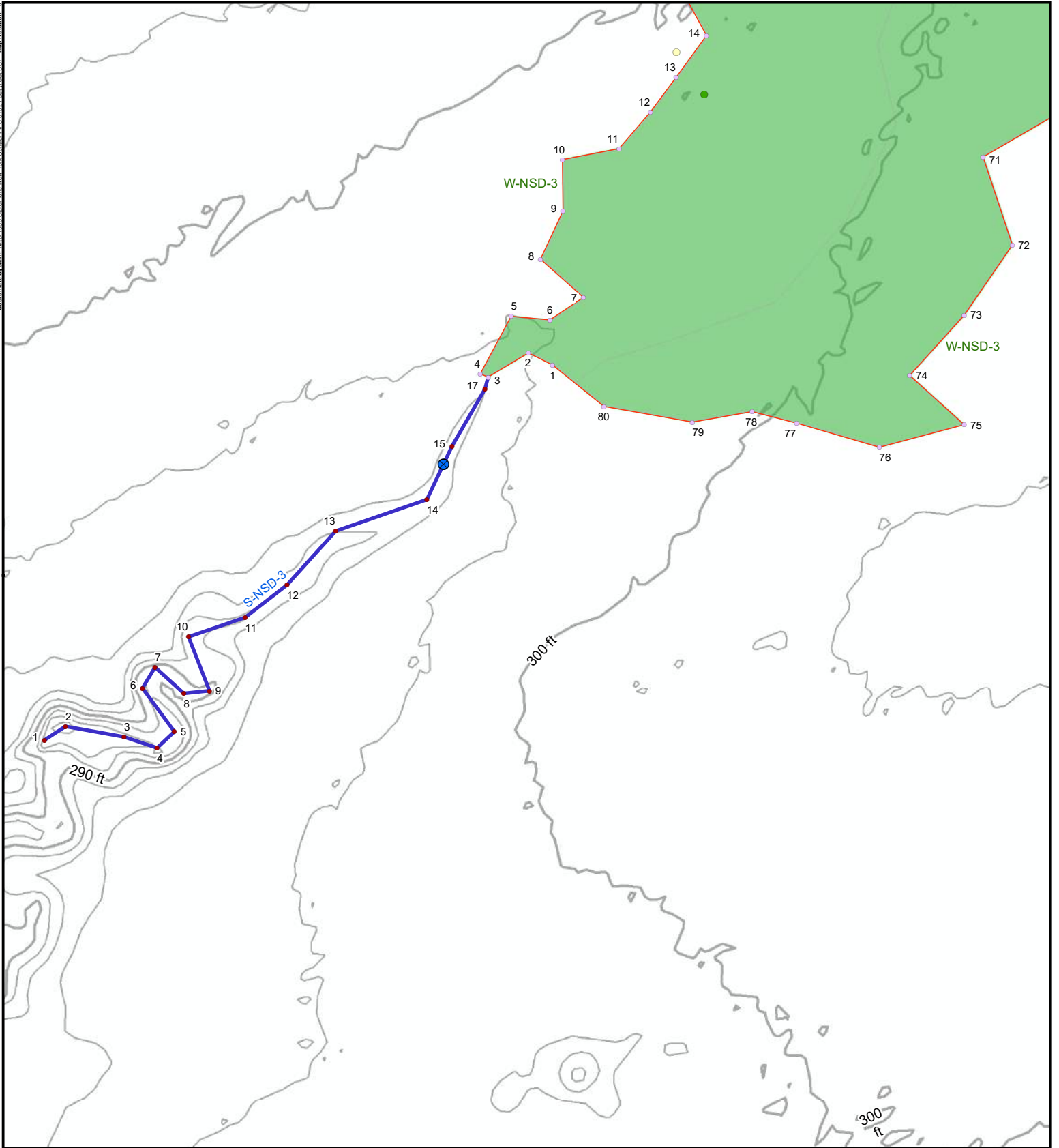
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5 SHEET 11 OF 61</b>
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD\_1983\_StatePlane\_New\_York\_Central\_FIPS\_3102 Feet (Foot, US) Map Resolution: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
STREAM PLOT	DELINEATED STREAM LINE
DELINEATED STREAM FLAG	USACE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

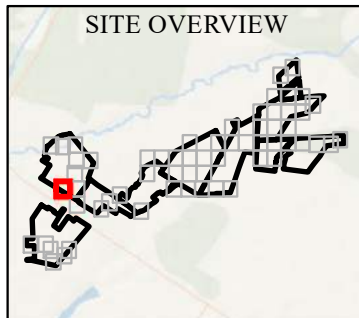
1:1,200 1" = 100' Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 12 OF 61





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	NON-JURISDICTIONAL
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

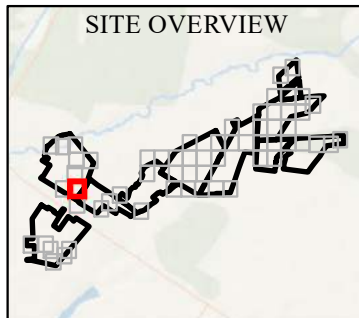
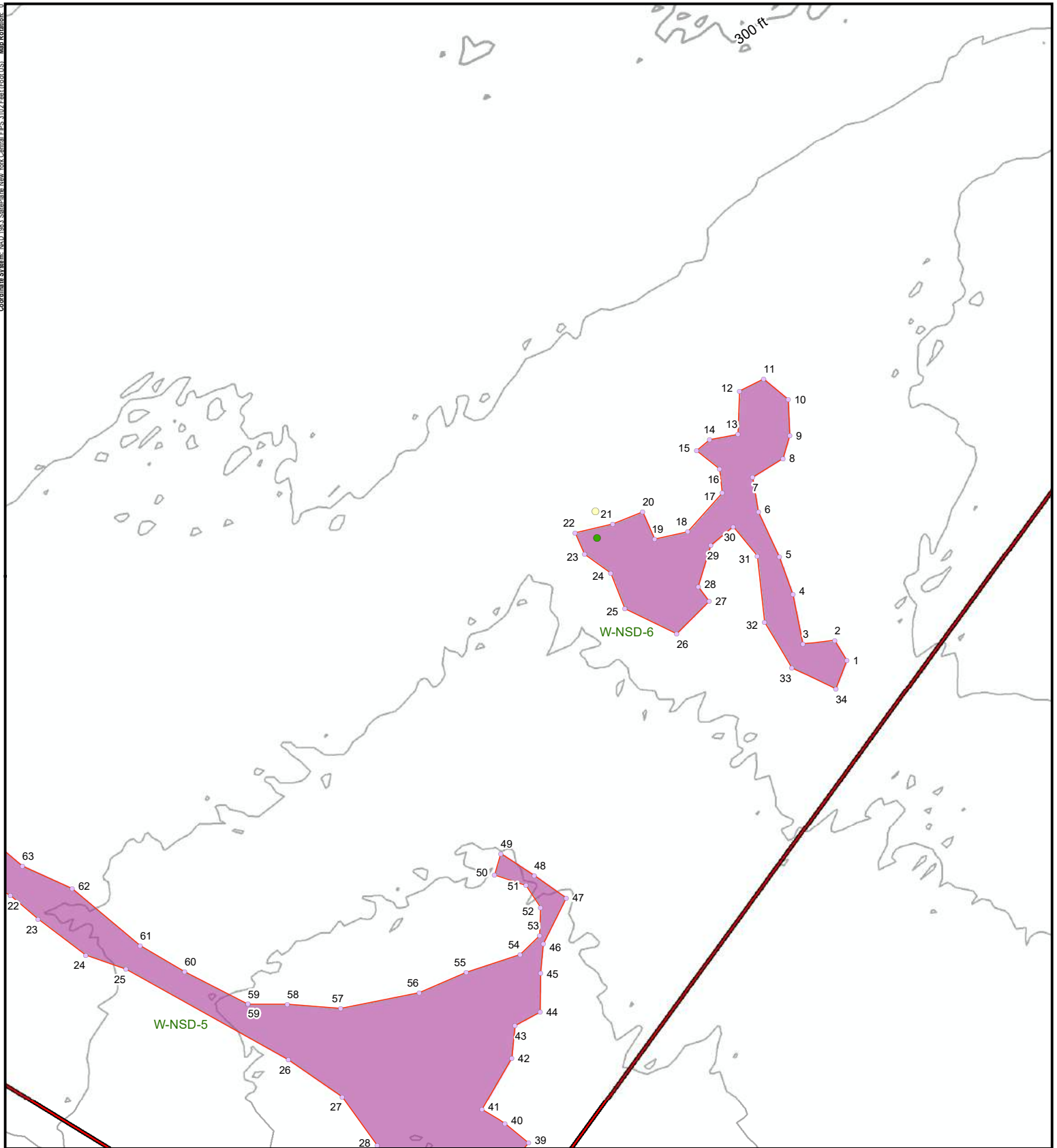
PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 13 OF 61

 TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	 RIVERSIDE SOLAR
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**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	NON-JURISDICTIONAL
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

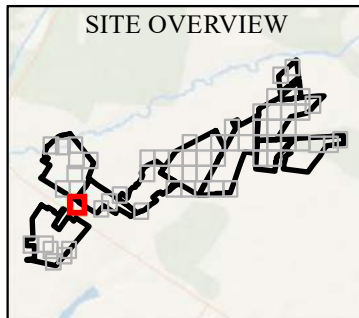
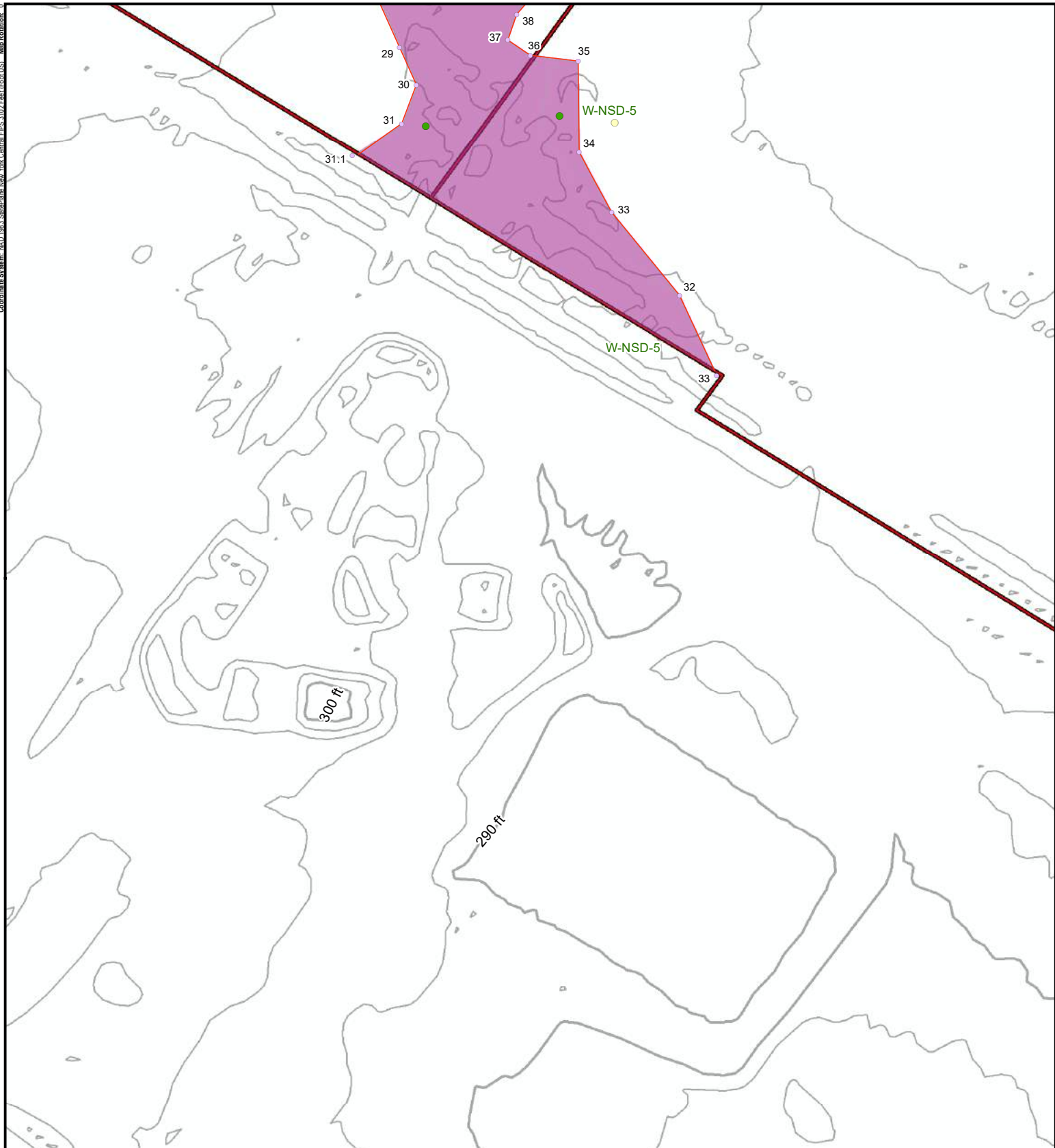
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 14 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) NON-JURISDICTIONAL
WETLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
UPLAND PLOT	
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

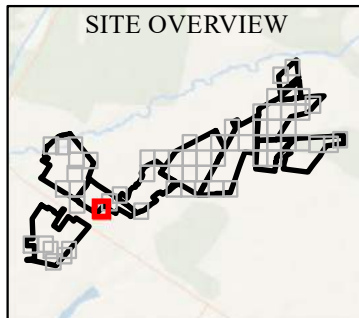
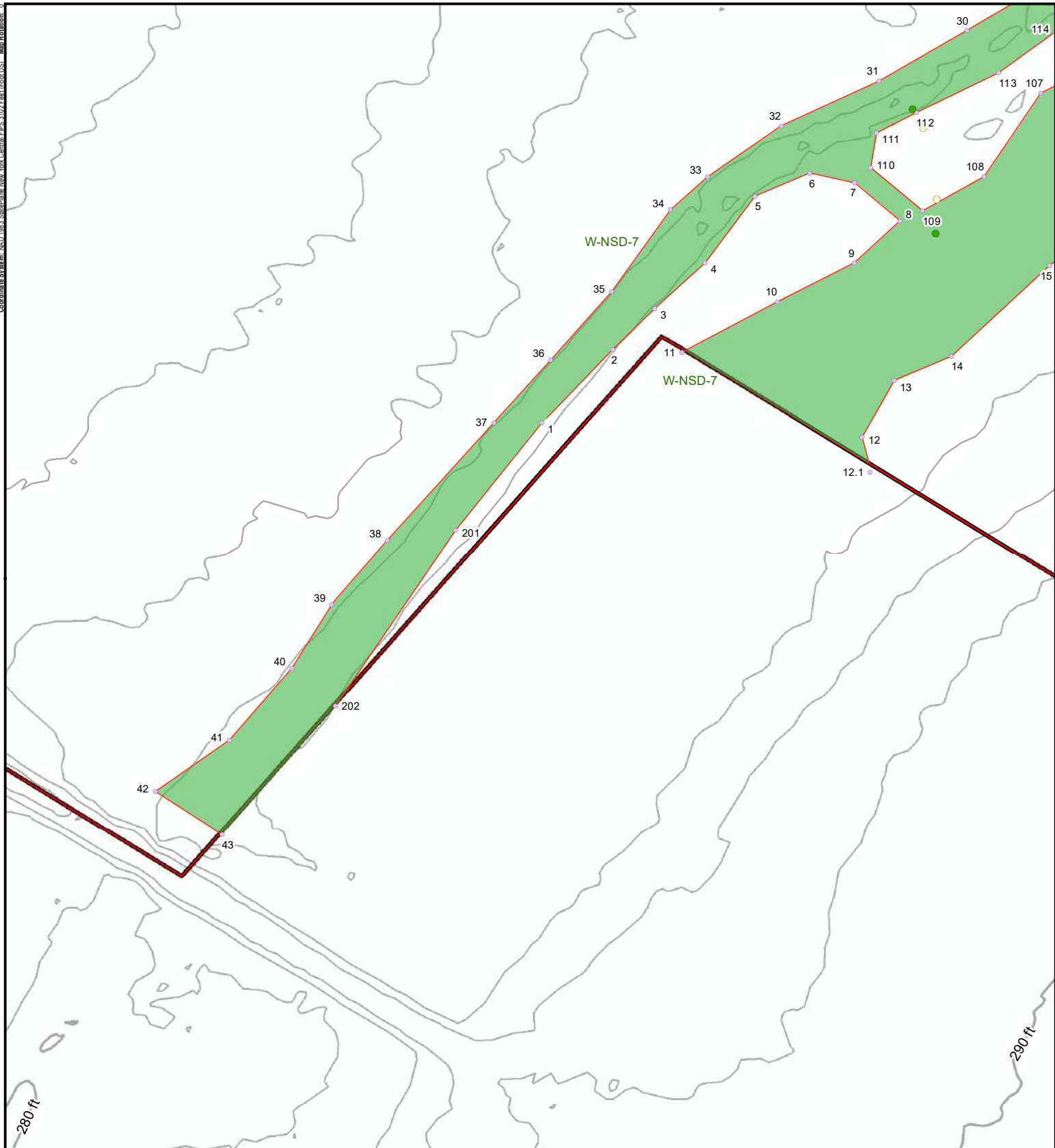
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5 SHEET 15 OF 61</b>
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

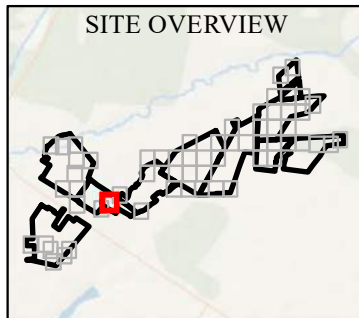
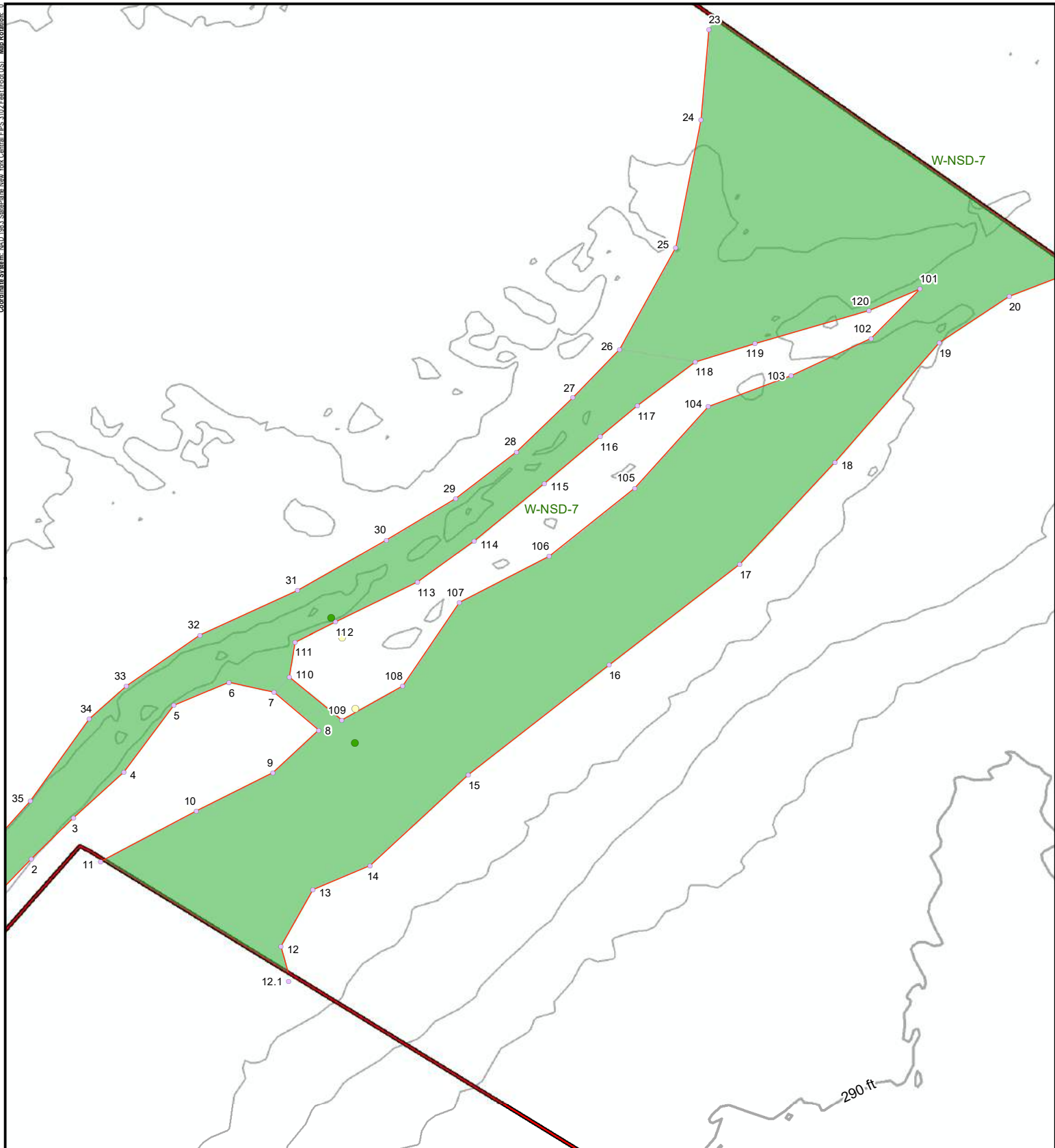
1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 16 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

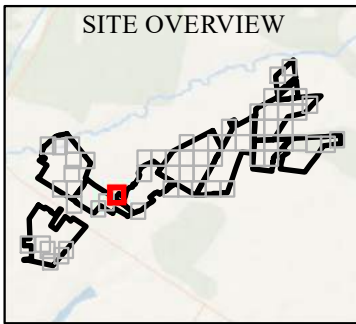
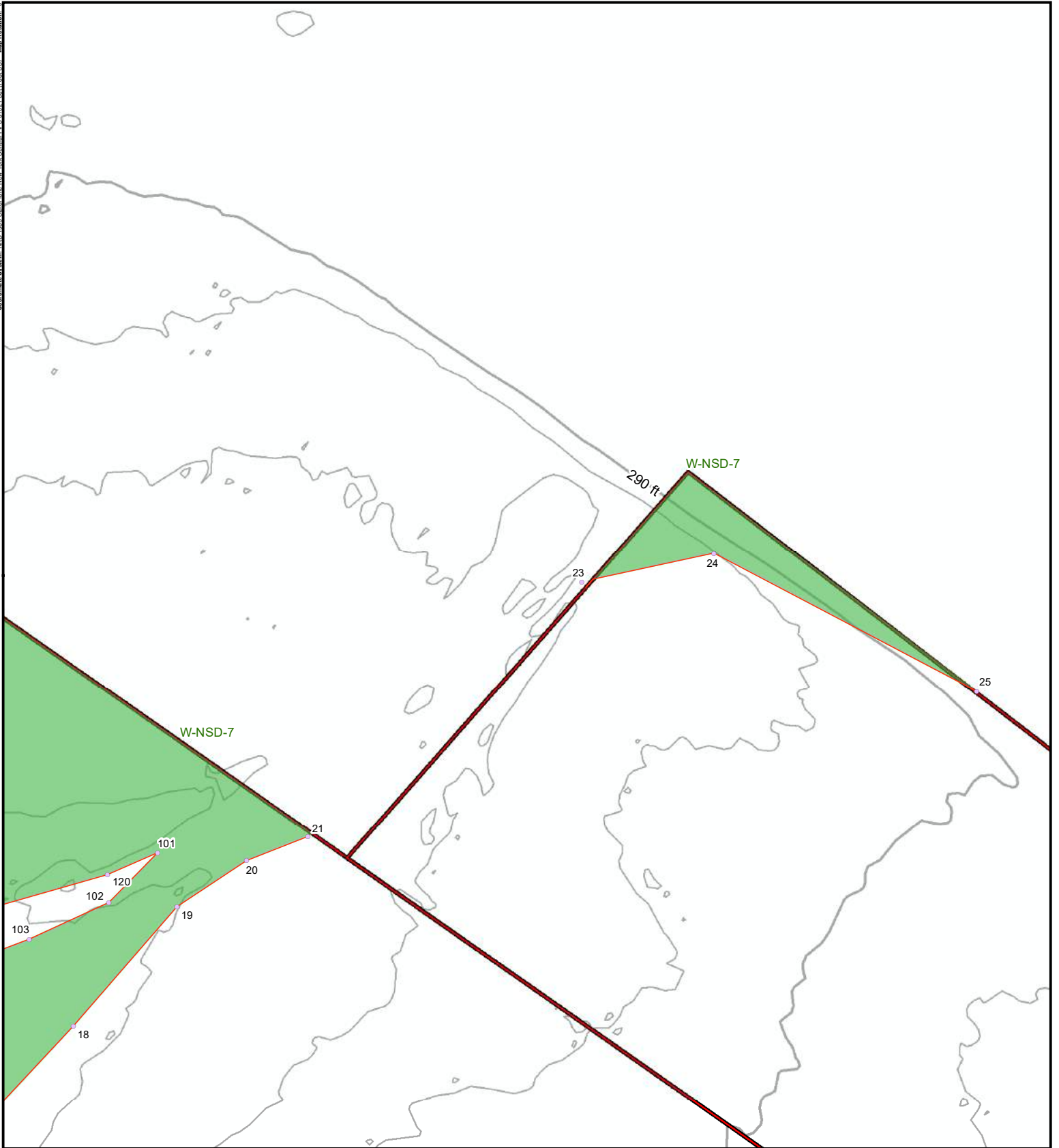
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 17 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND (TRC)
- DELINEATED WETLAND FLAG
- USACE
- DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

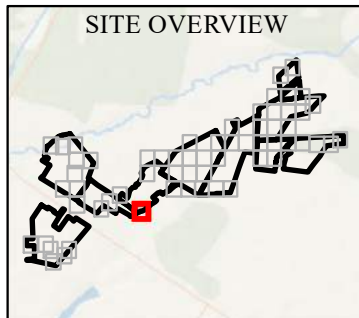
1:1,200 1" = 100'

0 25 50 Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 18 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD\_1983\_StatePlane\_New\_York\_Central\_FIPS\_3102\_East\_1Foot\_US - Map Rotation: 0



**LEGEND**

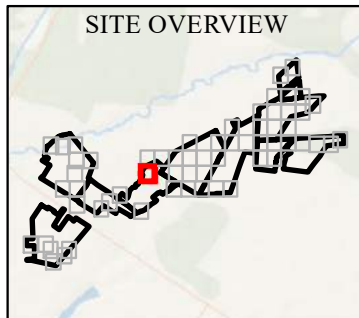
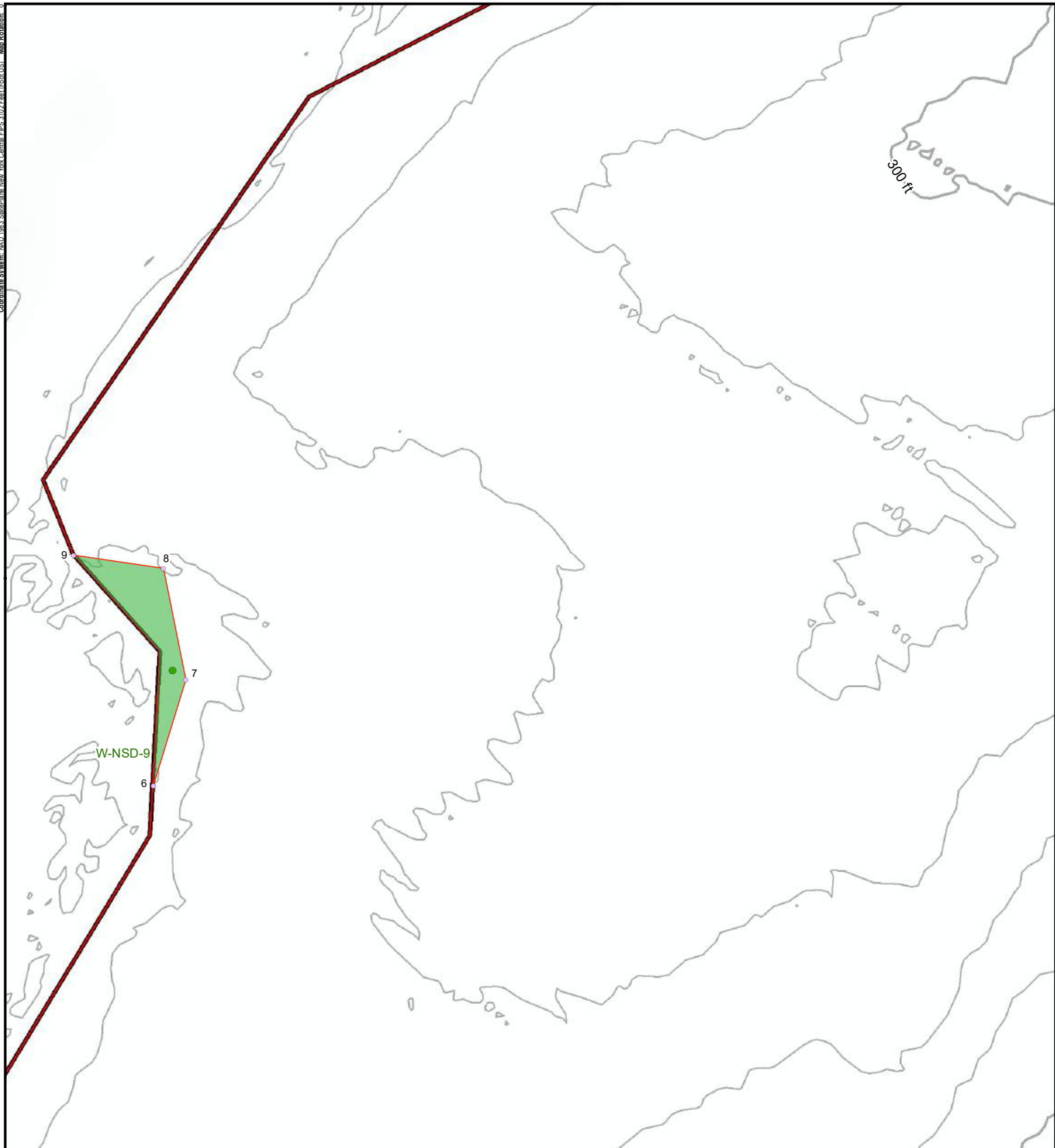
PROJECT AREA	DELINEATED WETLAND (TRC) USACE
WETLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
UPLAND PLOT	
CULVERT (TRC)	
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 19 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
RIVERSIDE SOLAR	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
WETLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

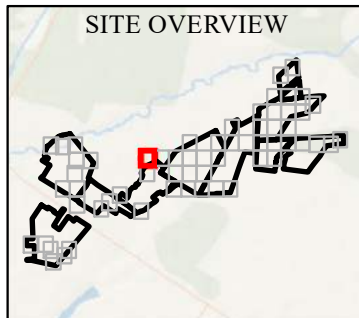
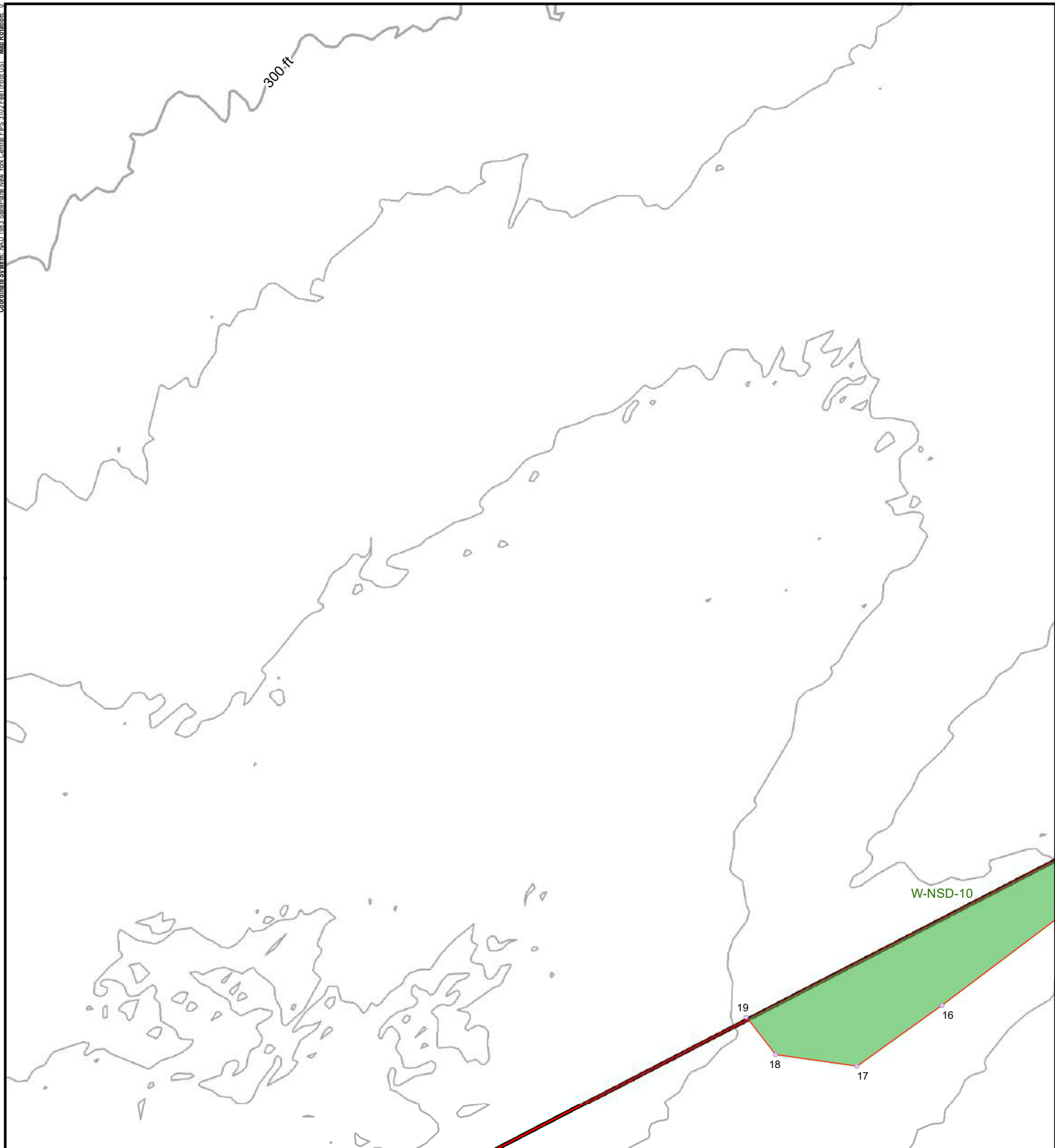
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 20 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 \*TERRAIN\* MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

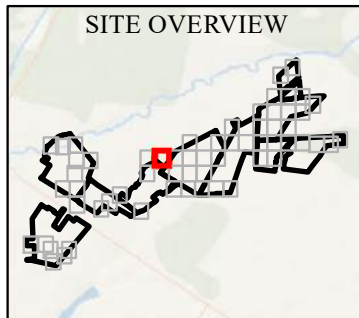
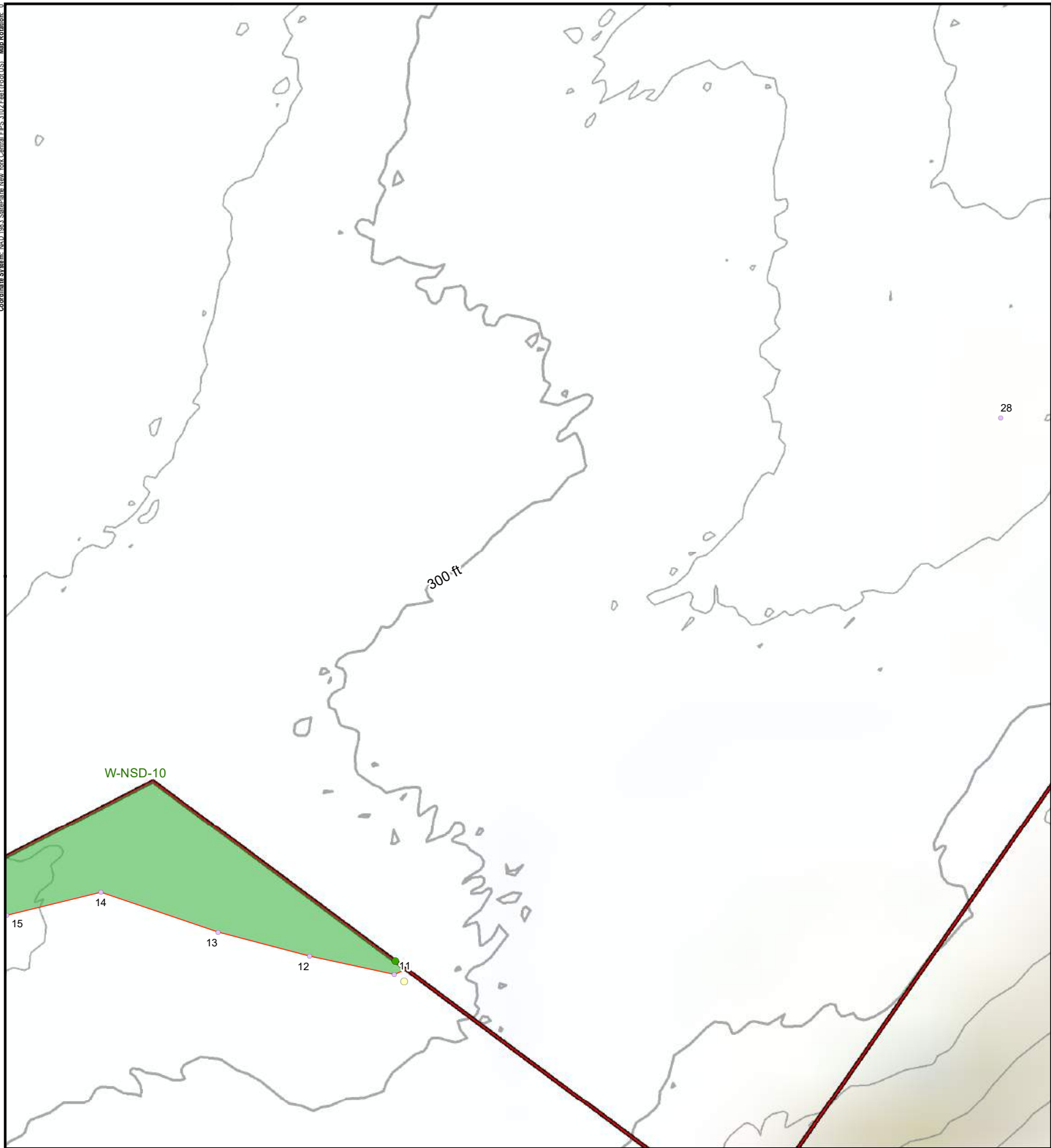
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 21 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

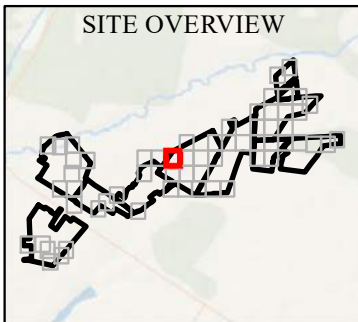
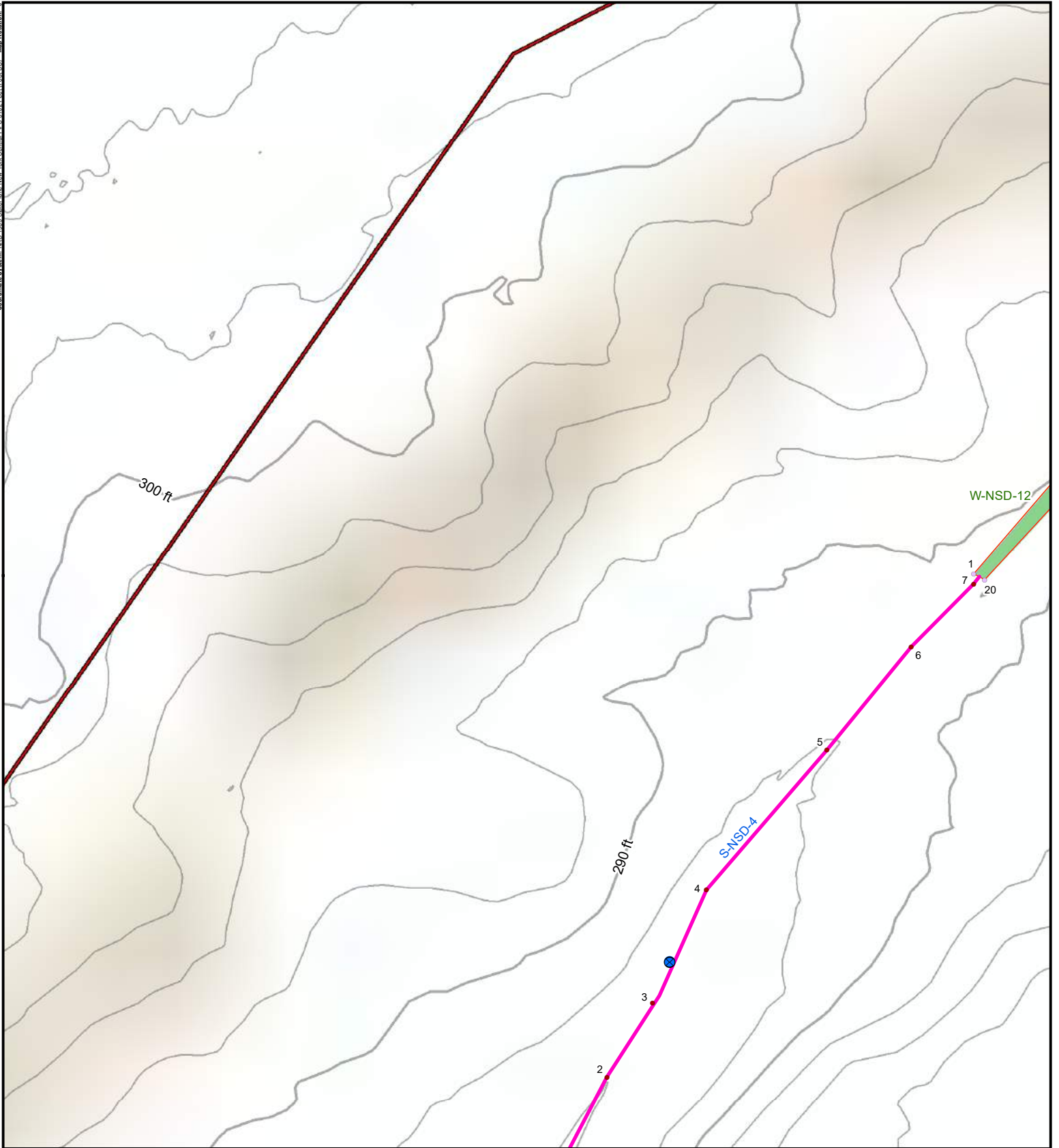
1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 22 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	STREAM PLOT	DELINEATED WETLAND (TRC) USACE
DELINEATED STREAM FLAG	DELINEATED WETLAND BOUNDARY LINE	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	NON-JURISDICTIONAL	

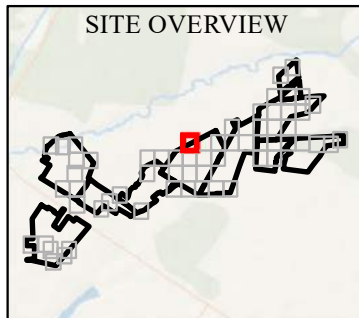
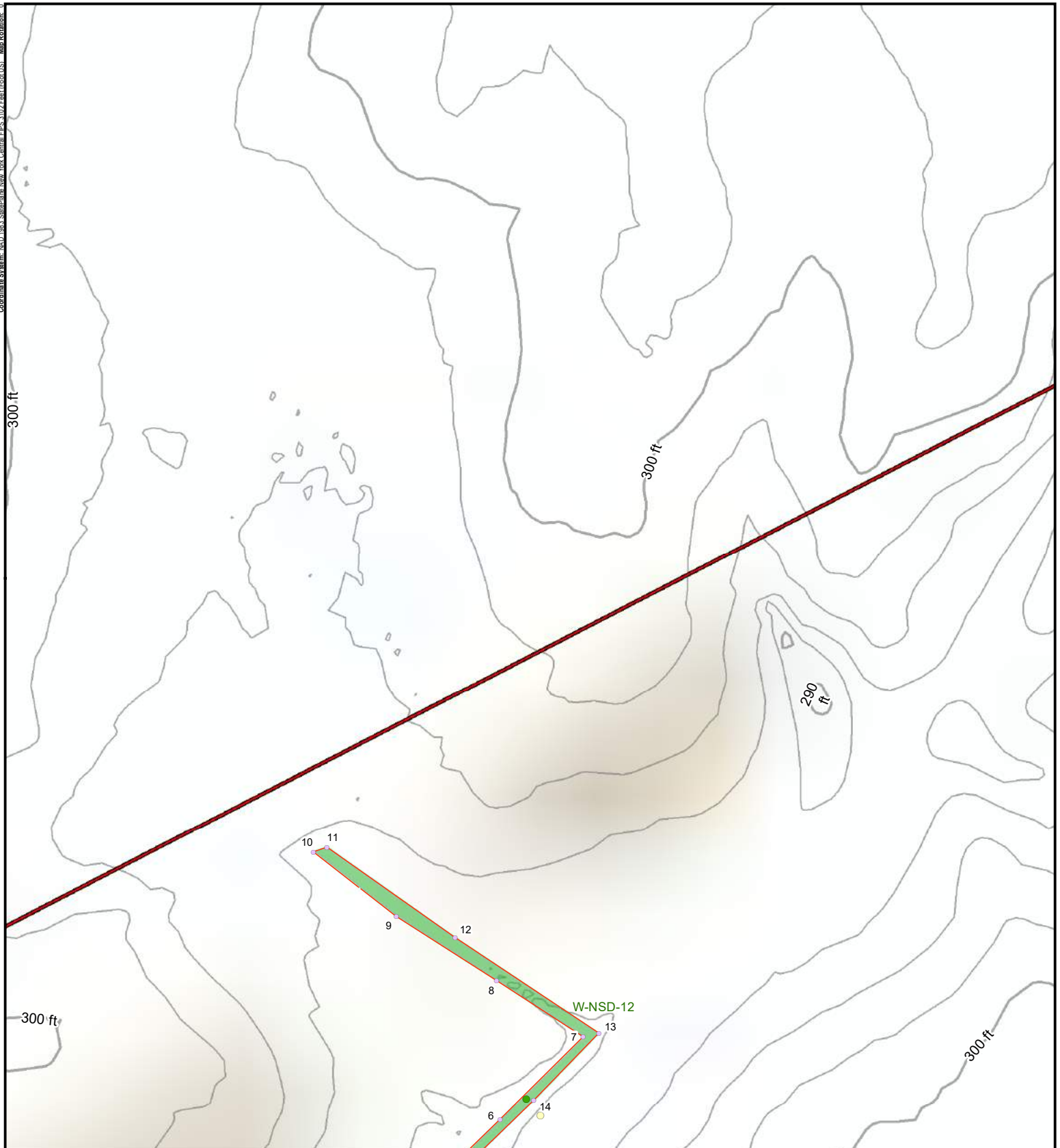
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
<b>FIGURE 5</b> SHEET 23 OF 61	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

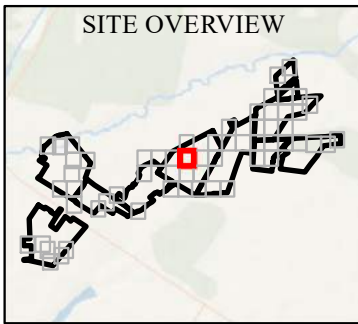
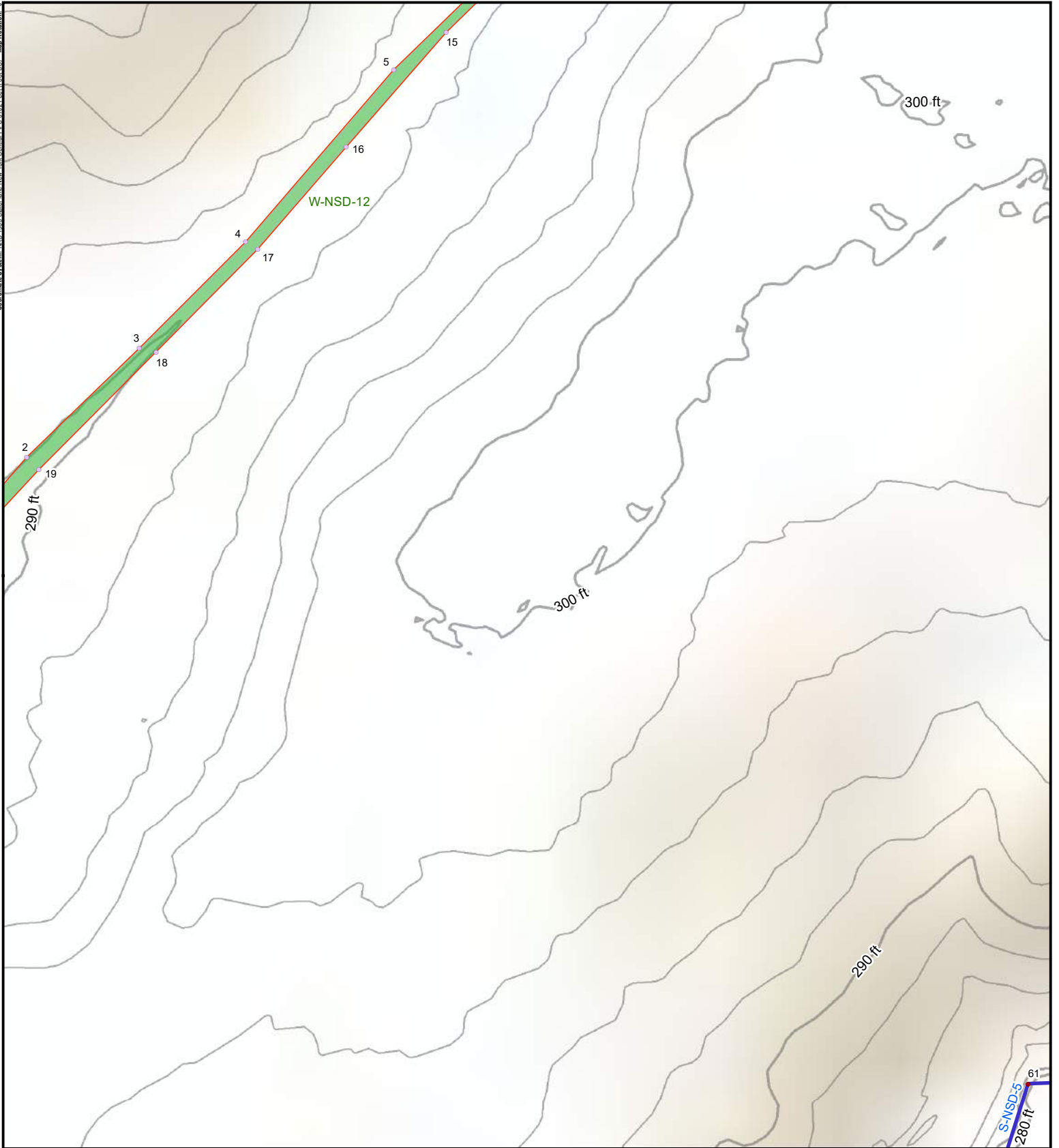
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 24 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





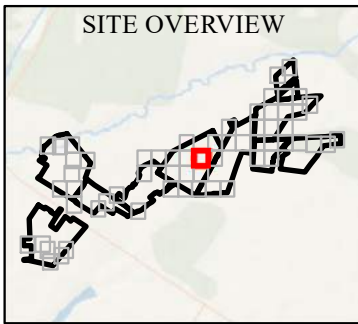
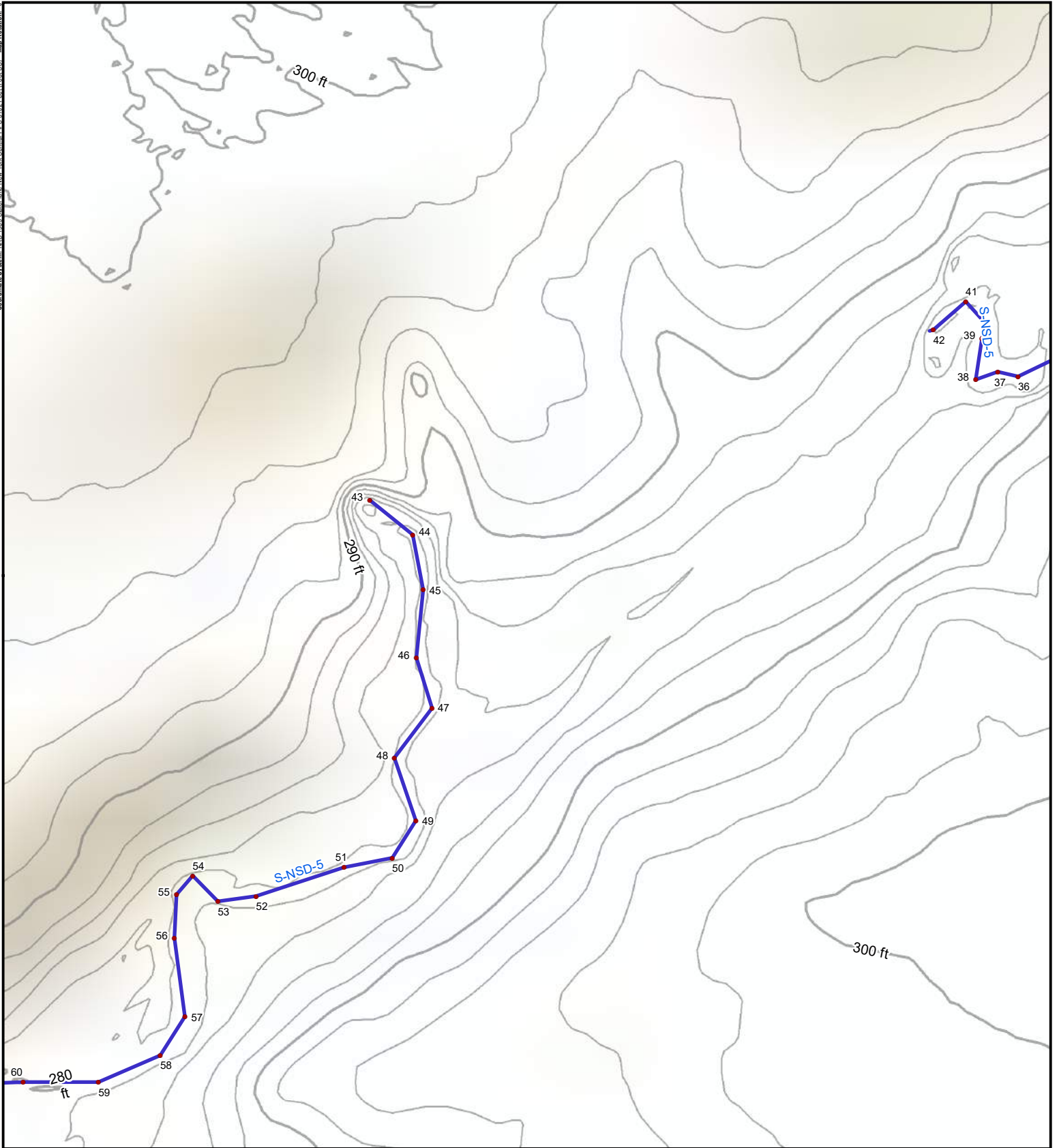
**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED STREAM FLAG	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	DELINEATED STREAM LINE USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 25 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

- PROJECT AREA
- DELINEATED STREAM FLAG
- DELINEATED STREAM LINE
- USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

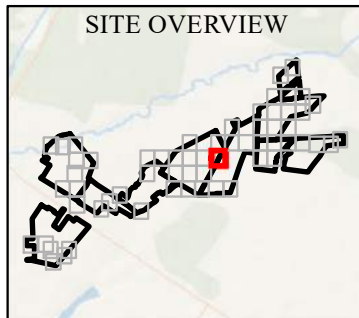
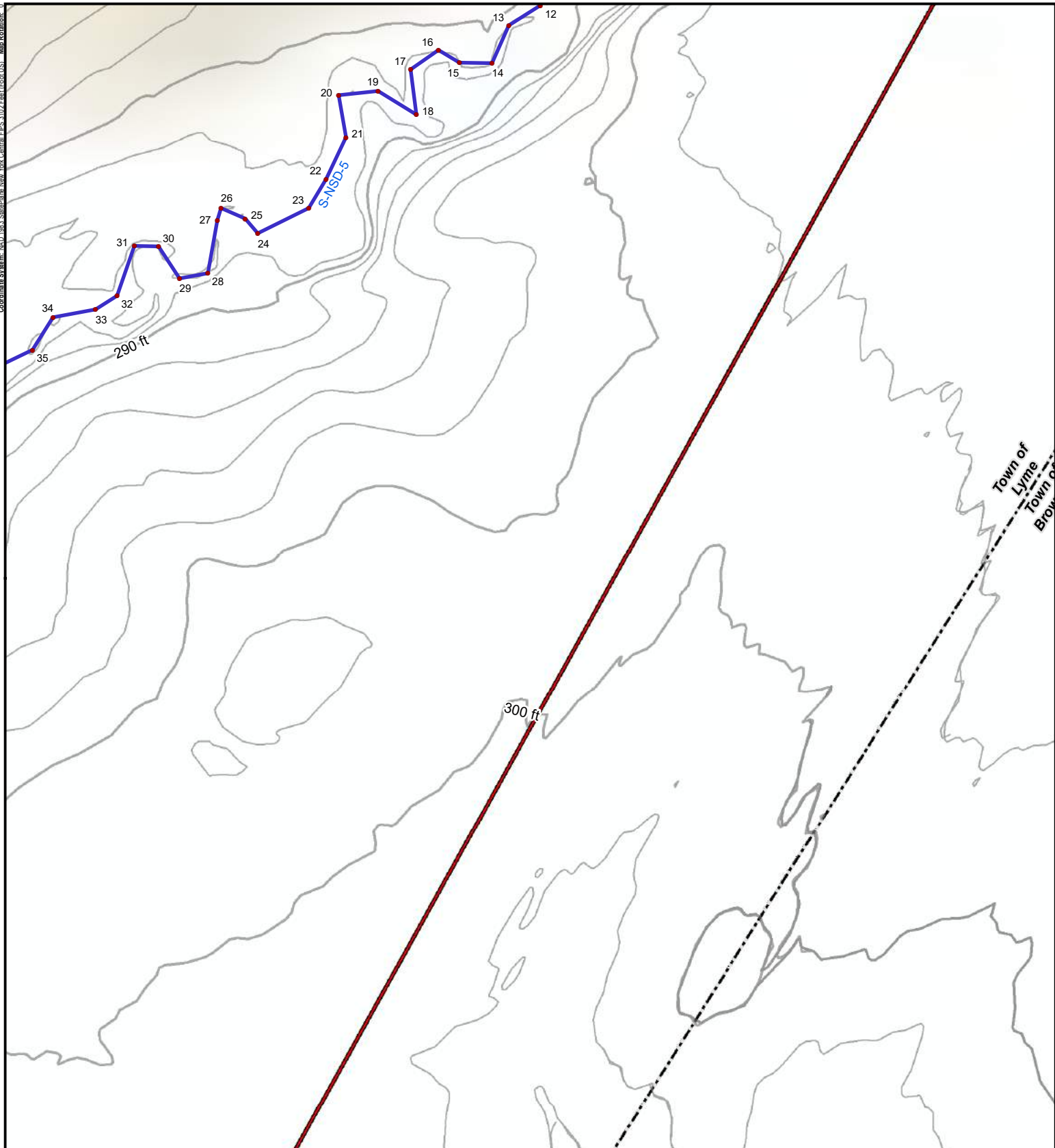
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: <b>RIVERSIDE SOLAR LLC</b> <b>TOWNS OF LYME &amp; BROWNVILLE</b> <b>JEFFERSON COUNTY, NY</b>	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
<b>FIGURE 5</b> SHEET 26 OF 61	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 East (Foot US) Map Rotation: 0



**LEGEND**

- PROJECT AREA
- DELINEATED STREAM FLAG
- DELINEATED STREAM LINE
- USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

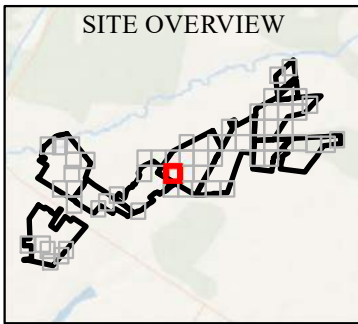
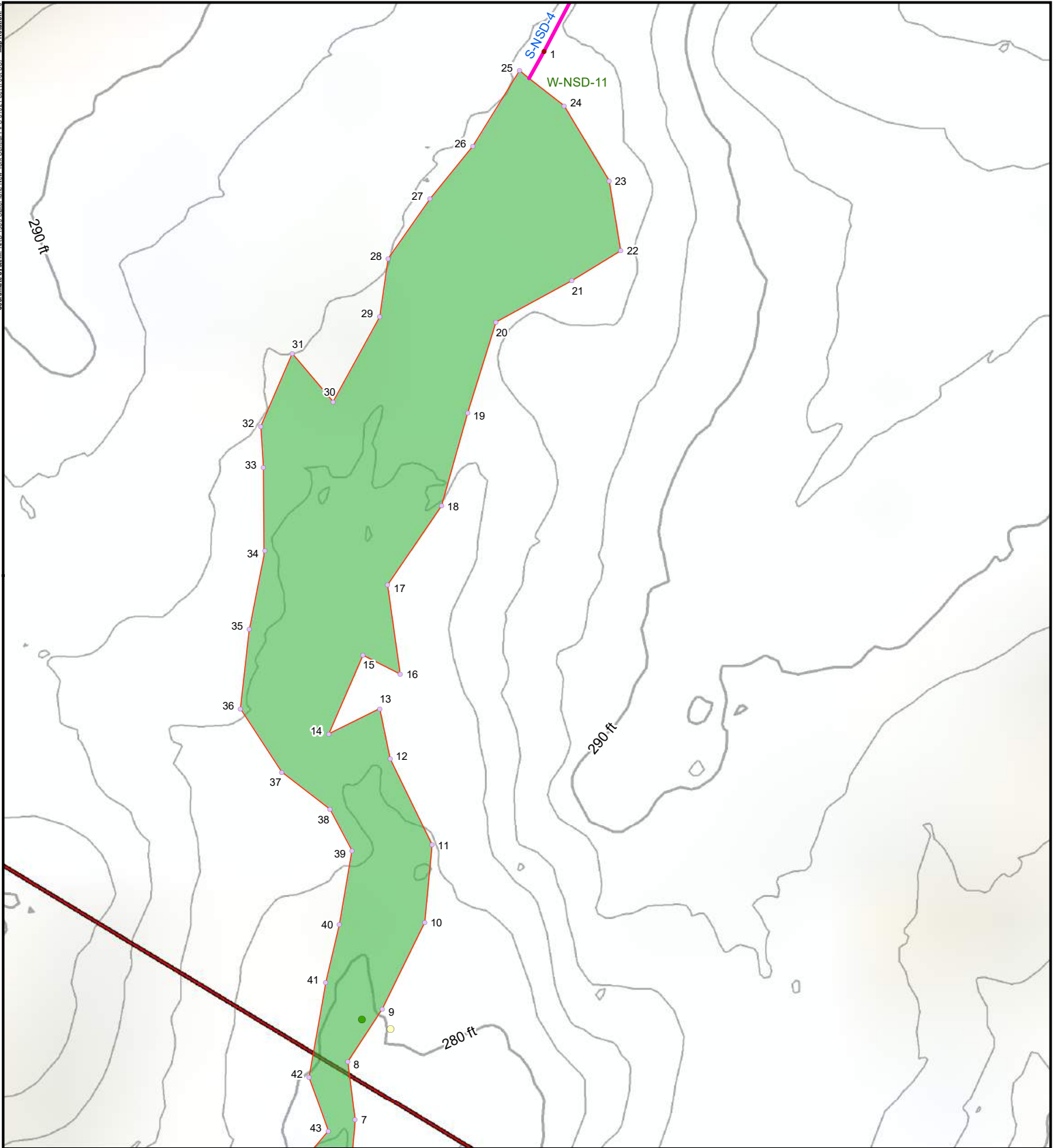
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	<b>FIGURE 5</b> SHEET 27 OF 61
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





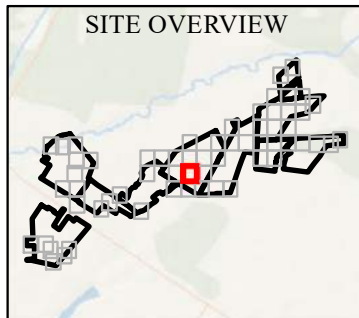
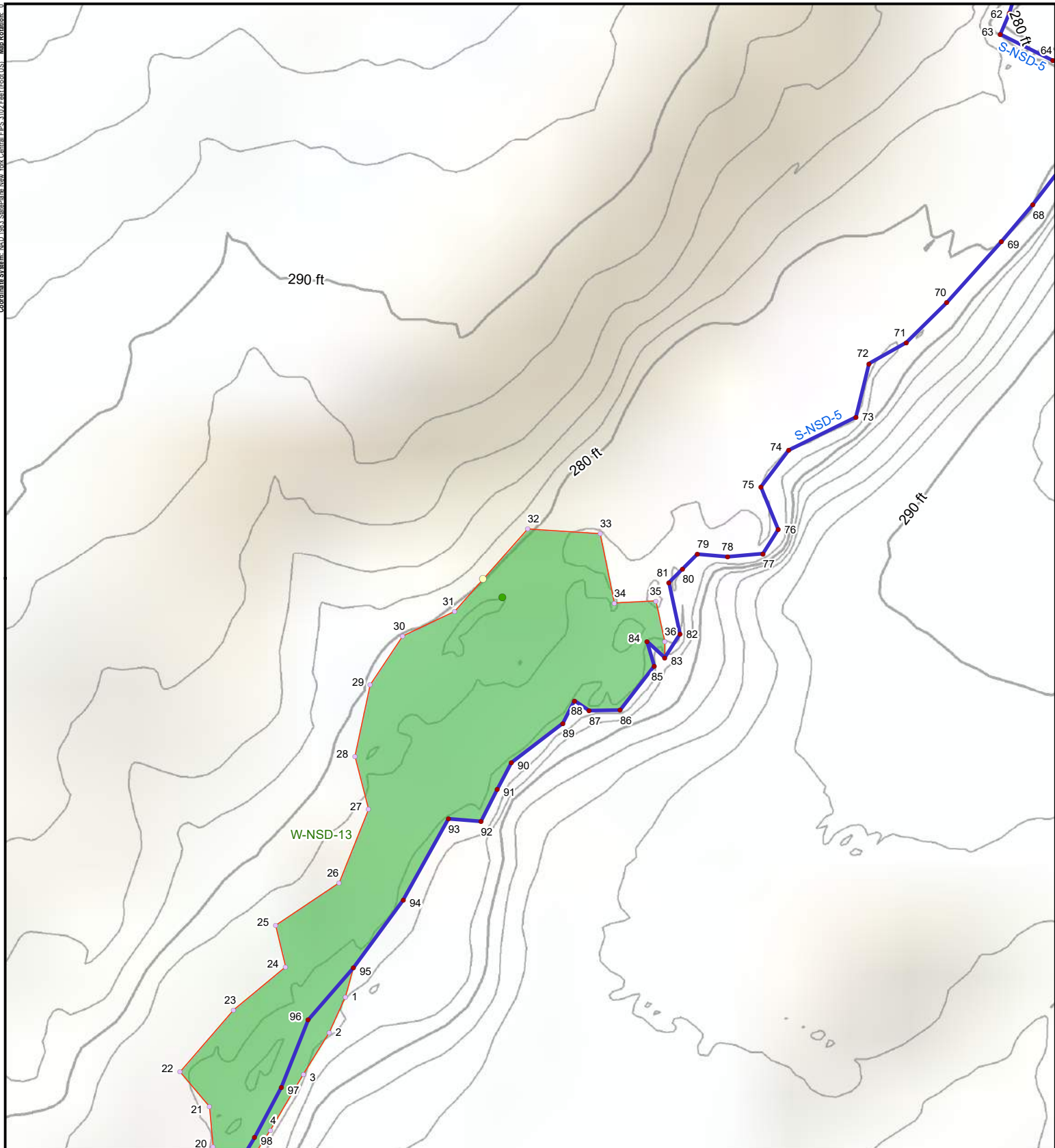
**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	NON-JURISDICTIONAL

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	 <b>FIGURE 5</b> SHEET 28 OF 61



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	USACE

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

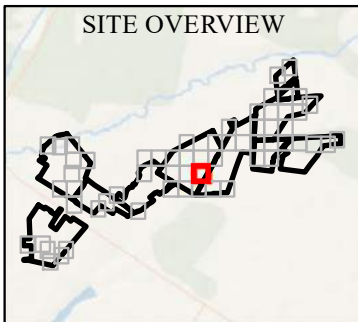
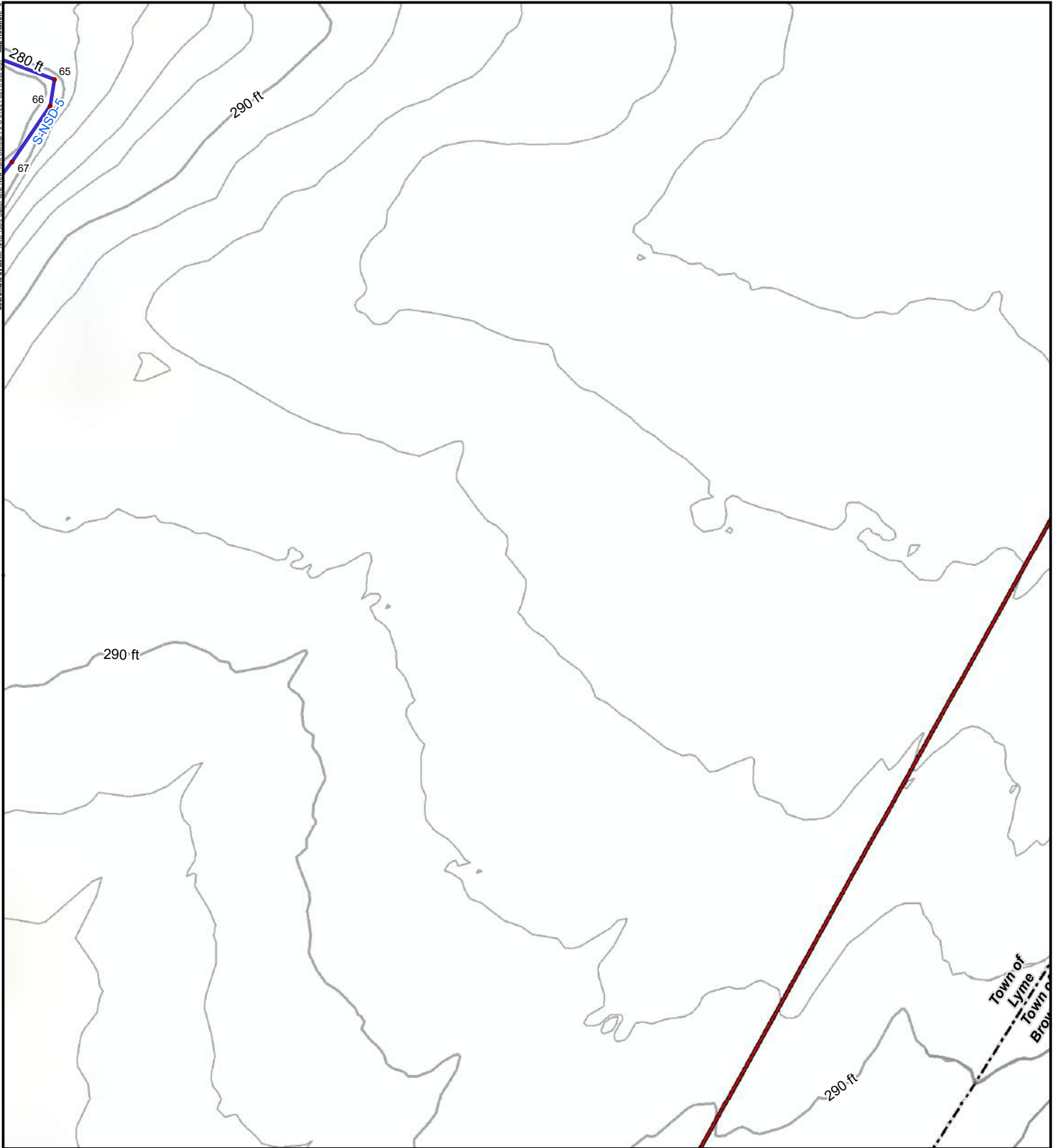
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<b>FIGURE 5</b> SHEET 29 OF 61	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0



**LEGEND**

- PROJECT AREA
- DELINEATED STREAM FLAG
- DELINEATED STREAM LINE
- USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

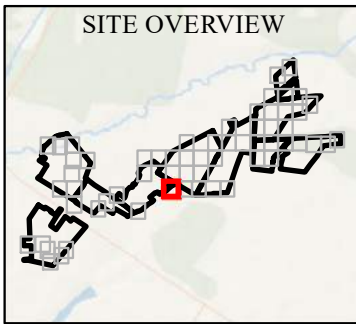
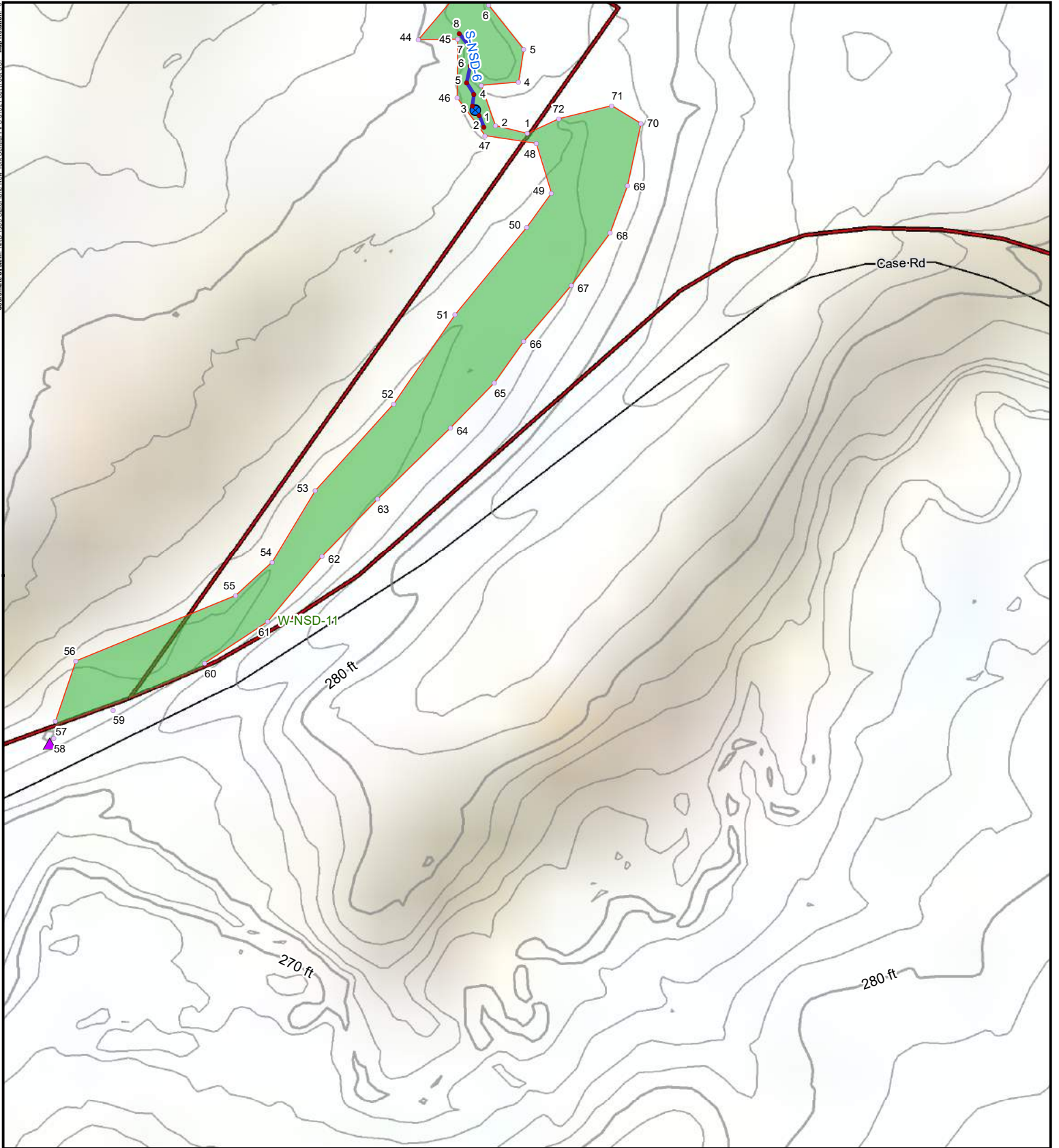
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
<b>FIGURE 5</b> SHEET 30 OF 61	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
CULVERT (TRC)	DELINEATED WETLAND BOUNDARY LINE
STREAM PLOT	DELINEATED STREAM LINE
DELINEATED STREAM FLAG	USACE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

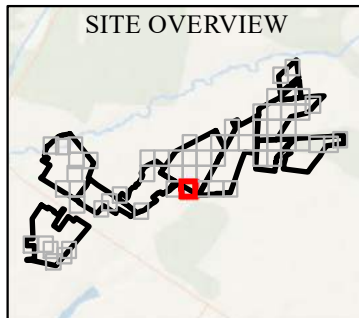
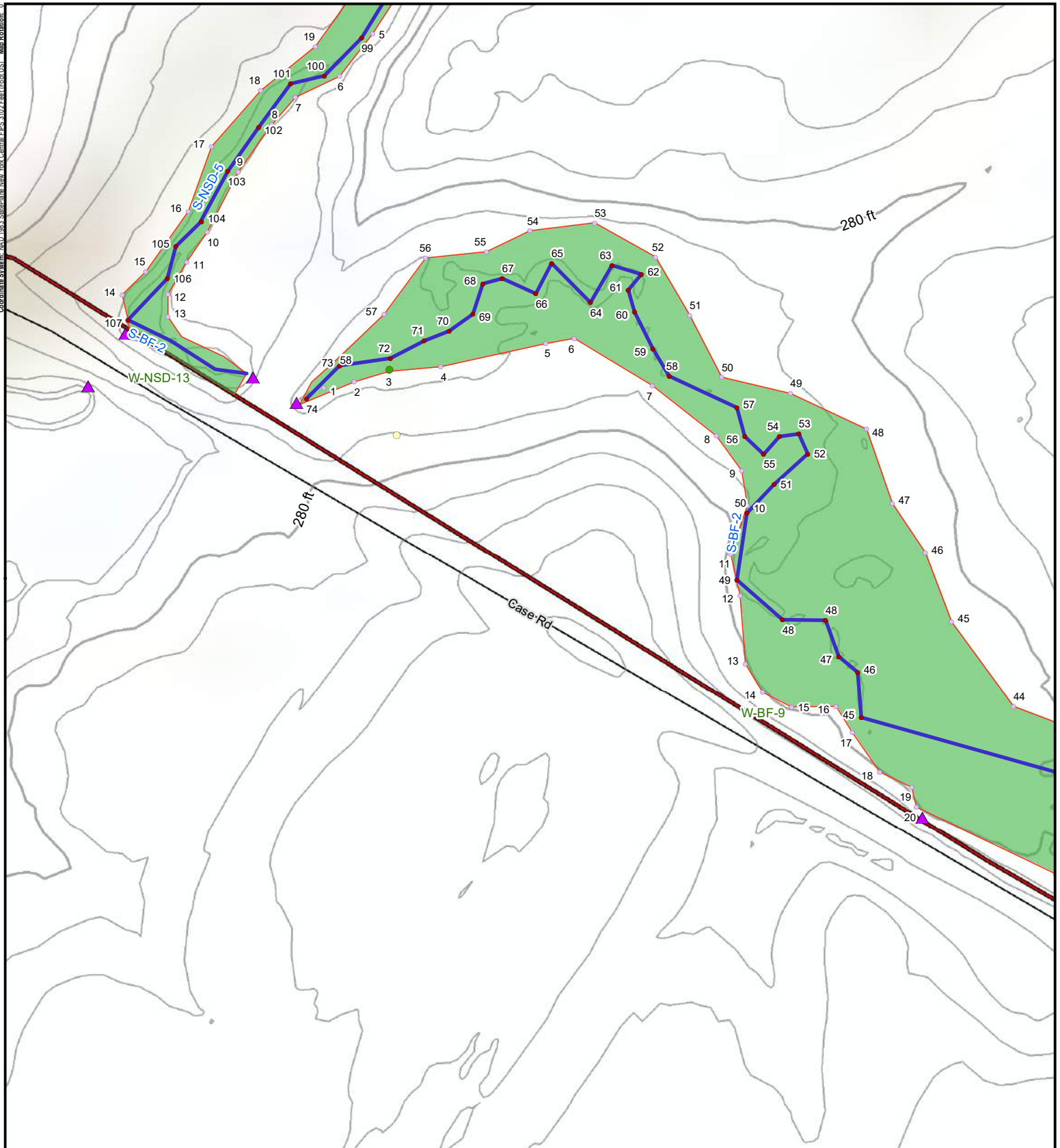
TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 31 OF 61

**TRC**  
 215 GREENFIELD PKWY, STE 102  
 LIVERPOOL, NY 13088

**RIVERSIDE SOLAR**



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
CULVERT (TRC)	DELINEATED STREAM LINE
DELINEATED STREAM FLAG	USACE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

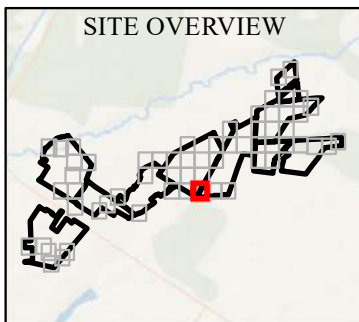
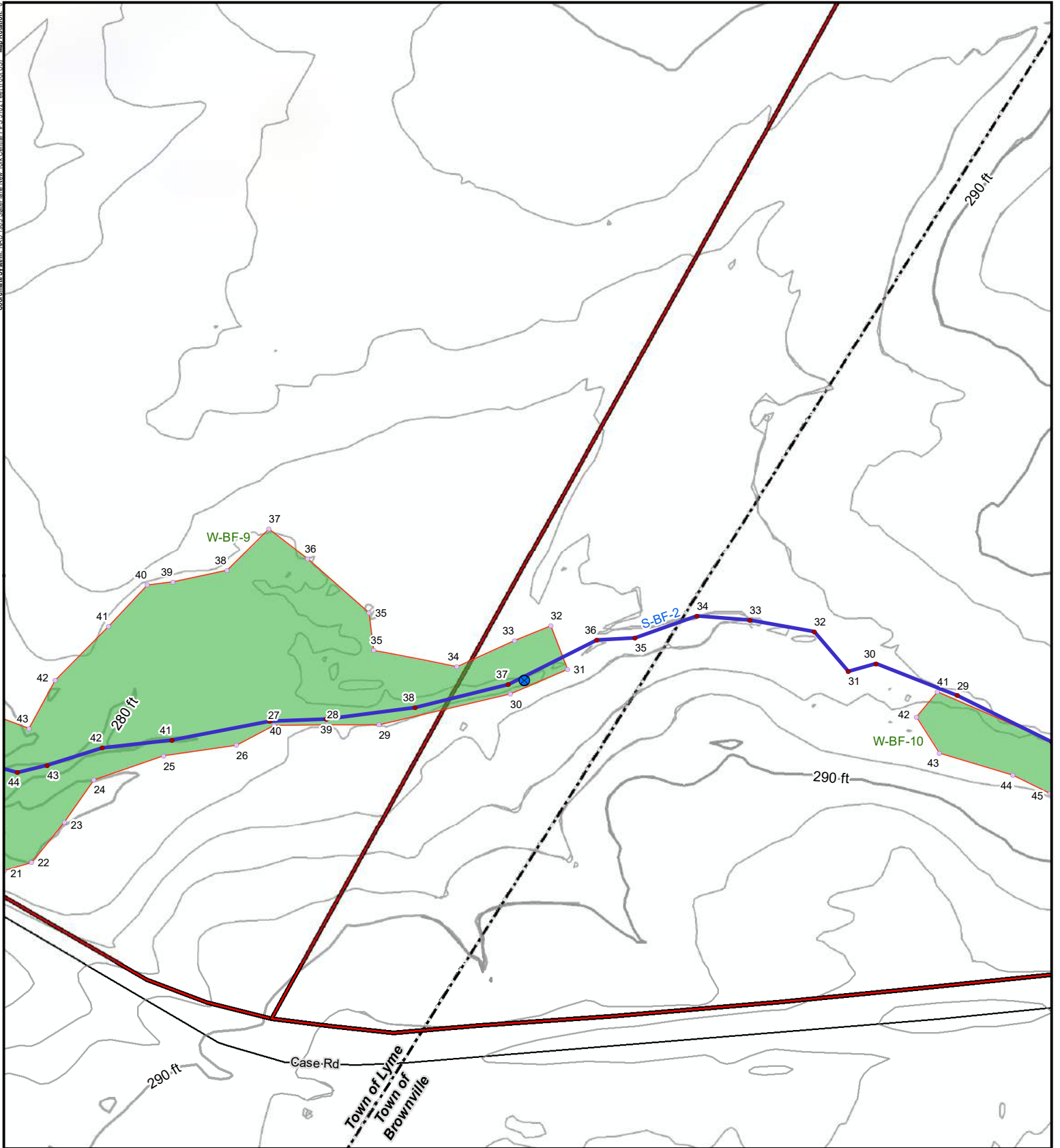
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 32 OF 61

TRC  
 215 GREENFIELD PKWY, STE 102  
 LIVERPOOL, NY 13088

RIVERSIDE SOLAR





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
STREAM PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

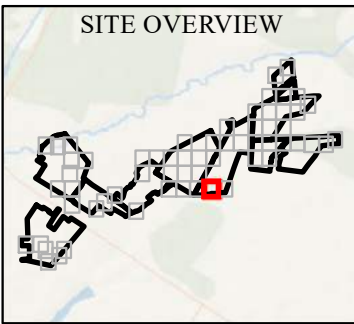
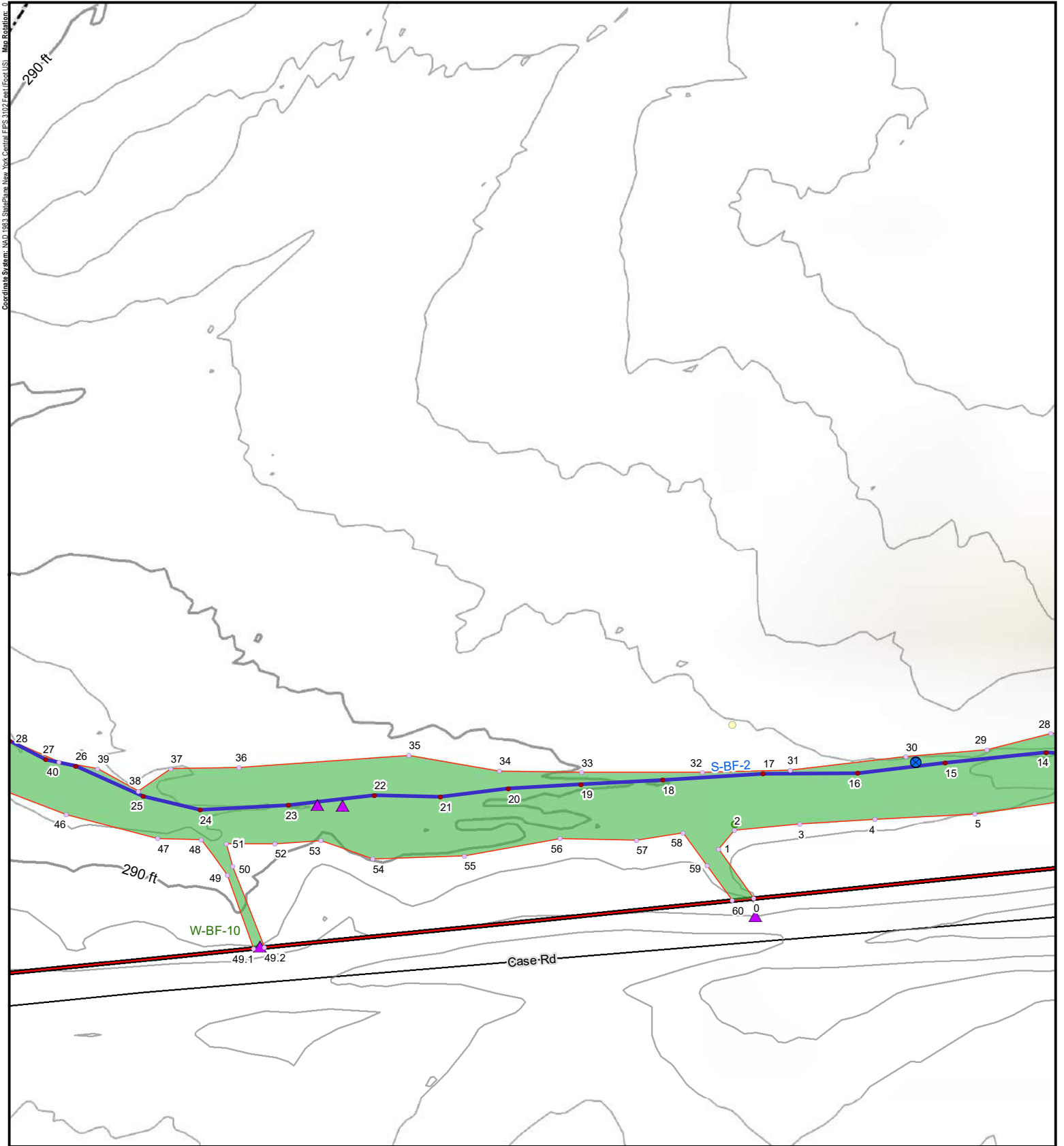
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTION STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<p><b>FIGURE 5</b> SHEET 33 OF 61</p>
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<p>215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088</p>	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
CULVERT (TRC)	DELINEATED STREAM LINE
STREAM PLOT	USACE
DELINEATED STREAM FLAG	
DELINEATED WETLAND FLAG	

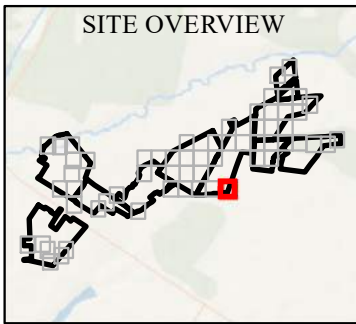
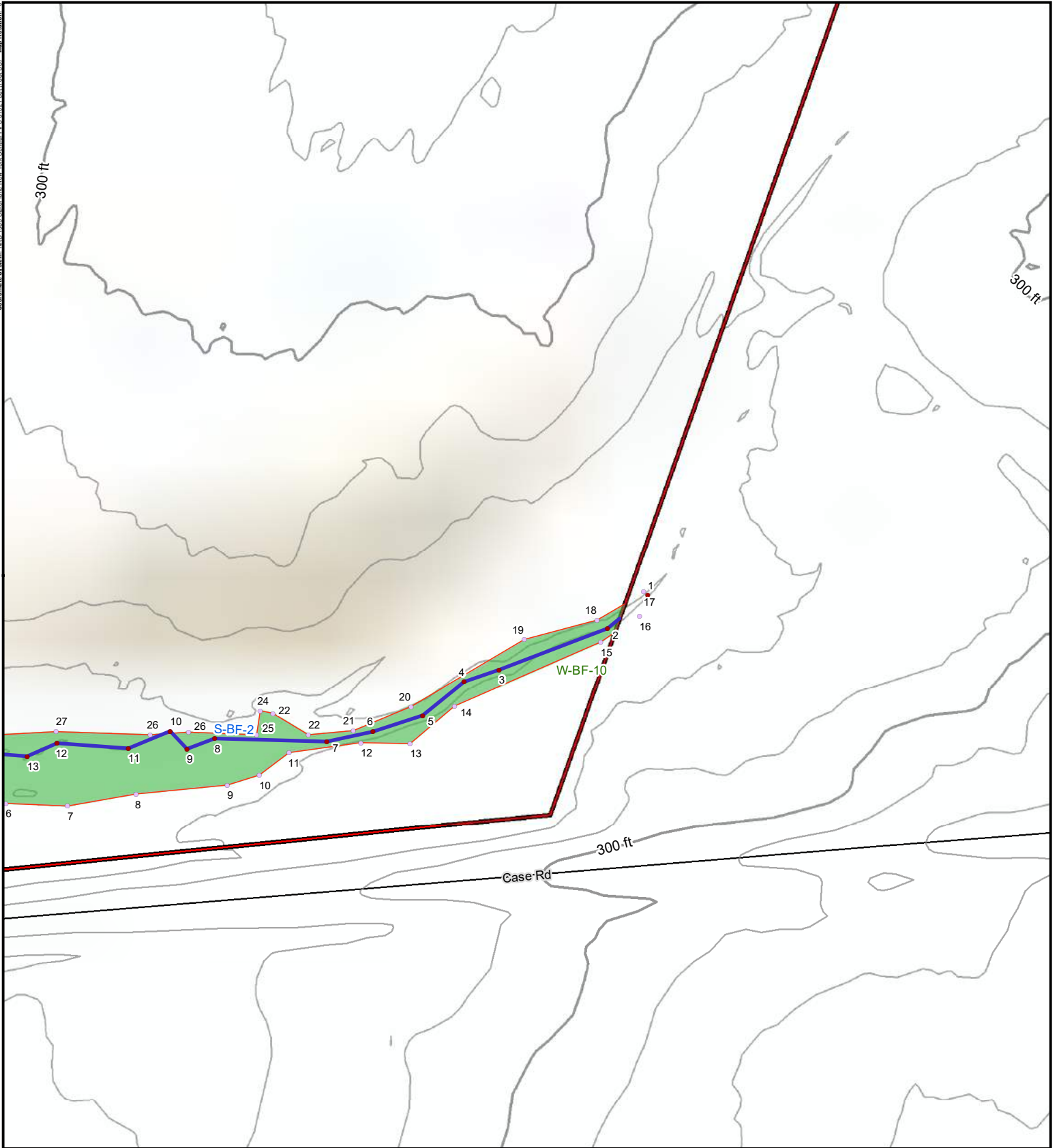
1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<b>FIGURE 5 SHEET 34 OF 61</b>	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



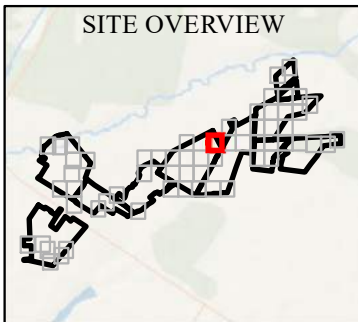
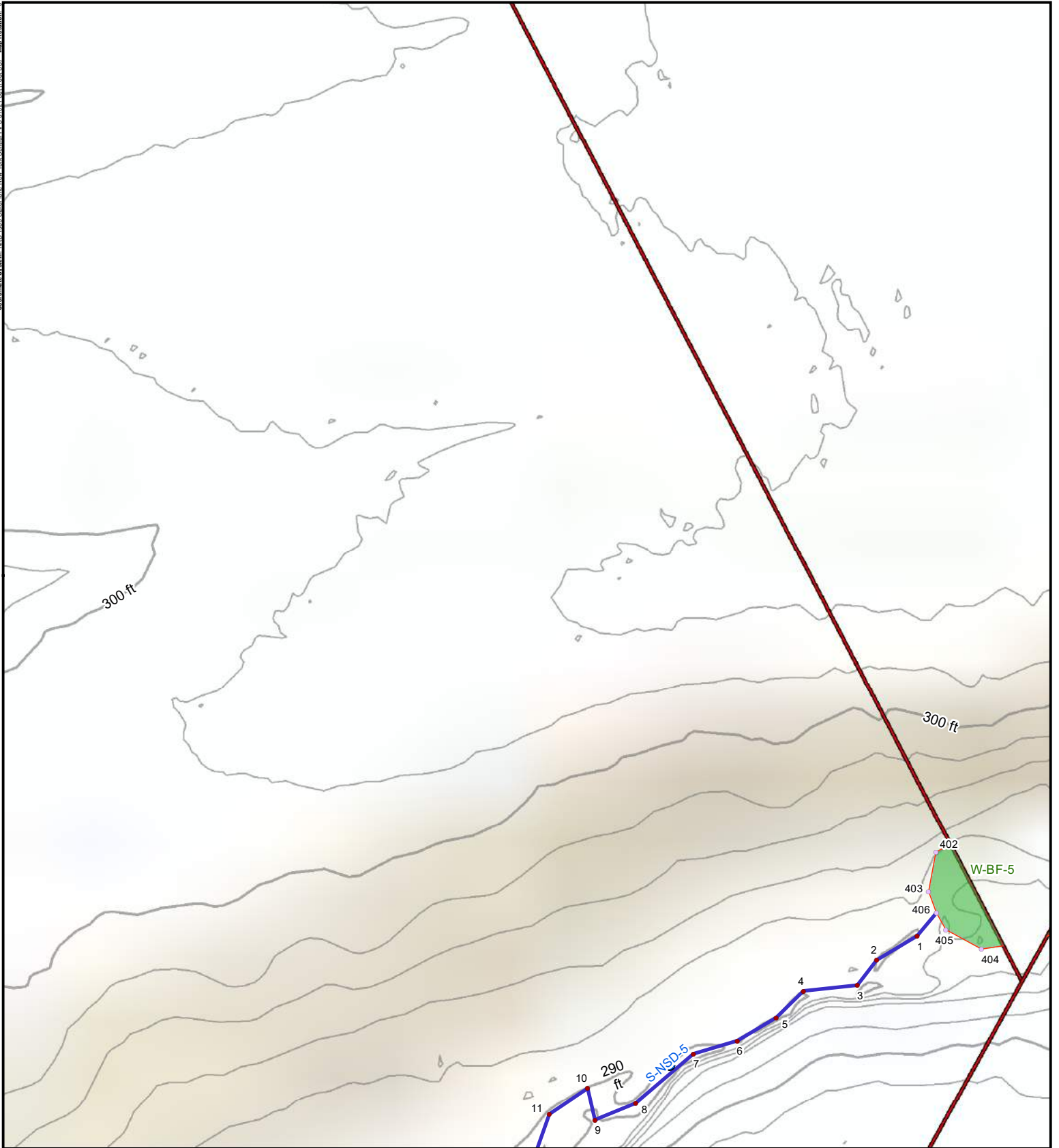
**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED STREAM FLAG	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	DELINEATED STREAM LINE USACE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 35 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
STREAM PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE
DELINEATED WETLAND FLAG	USACE

1. BASEMAP IMAGERY FROM ESRI  
 \*TERRAIN\* MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

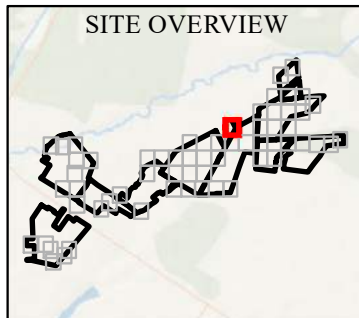
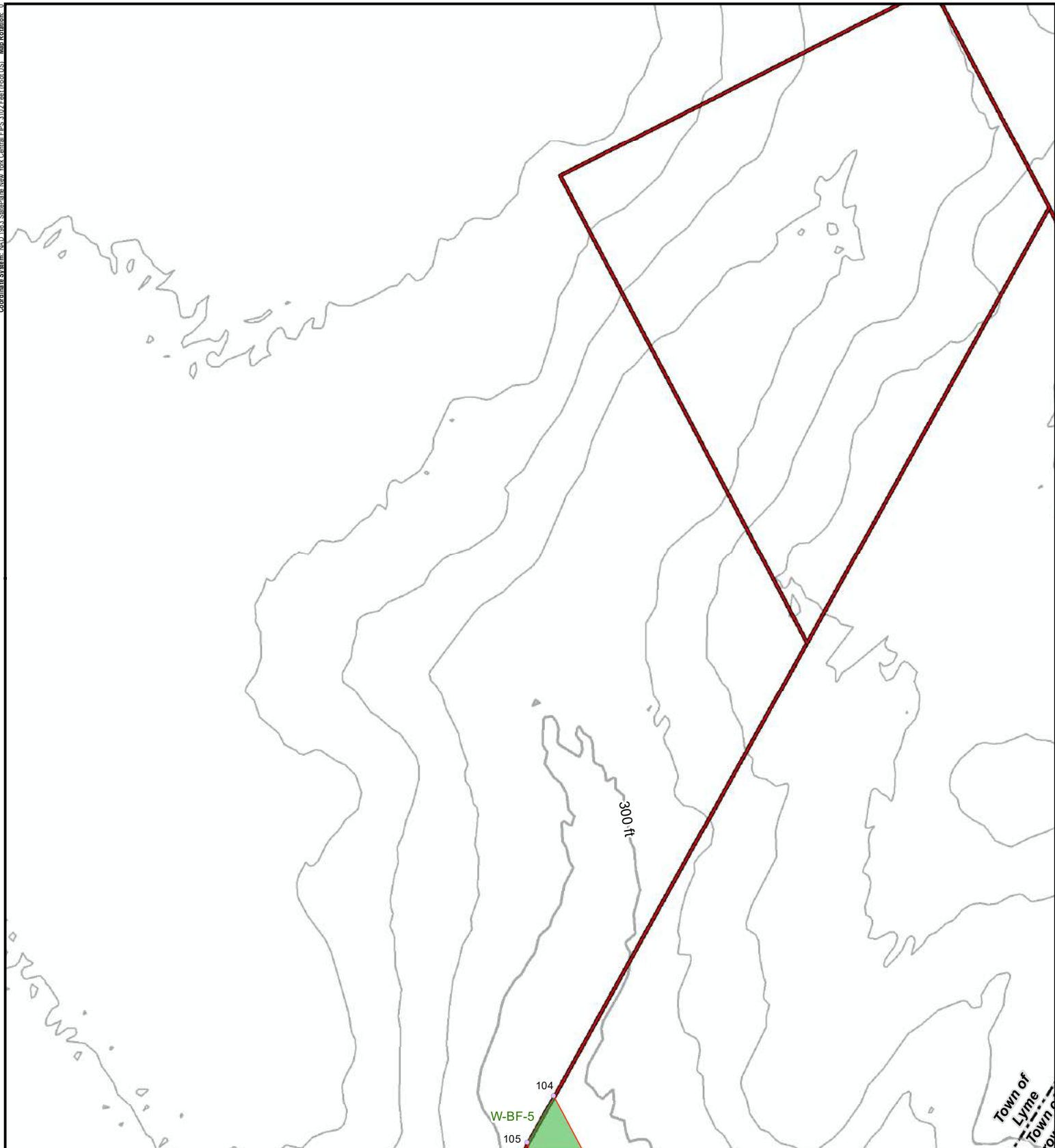
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 36 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
DELINEATED WETLAND FLAG	USACE
	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

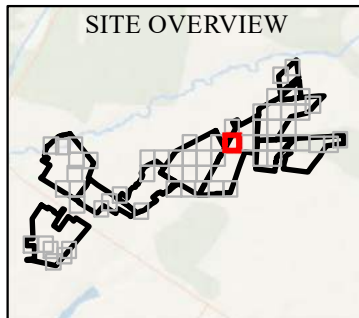
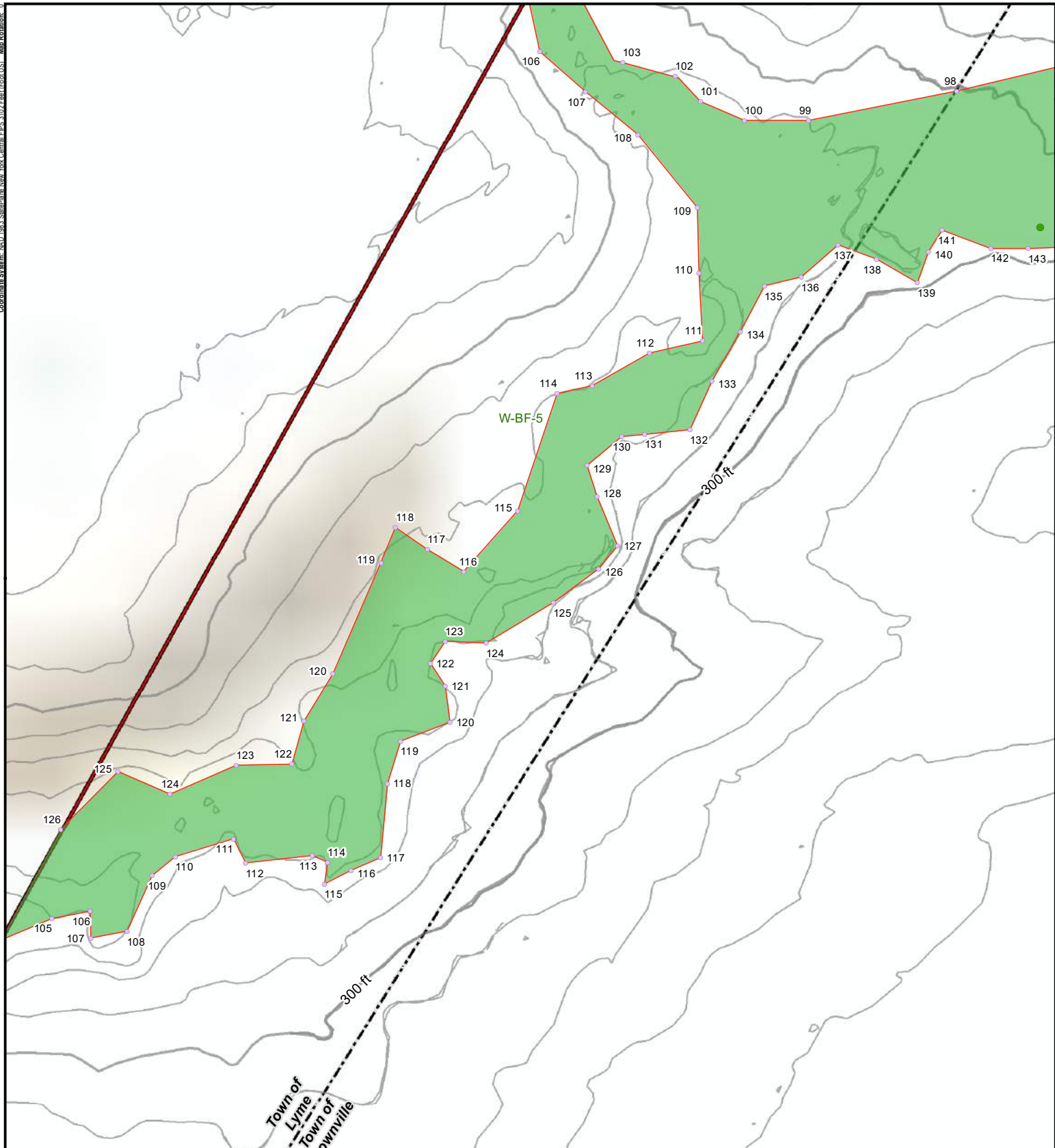
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 37 OF 61

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

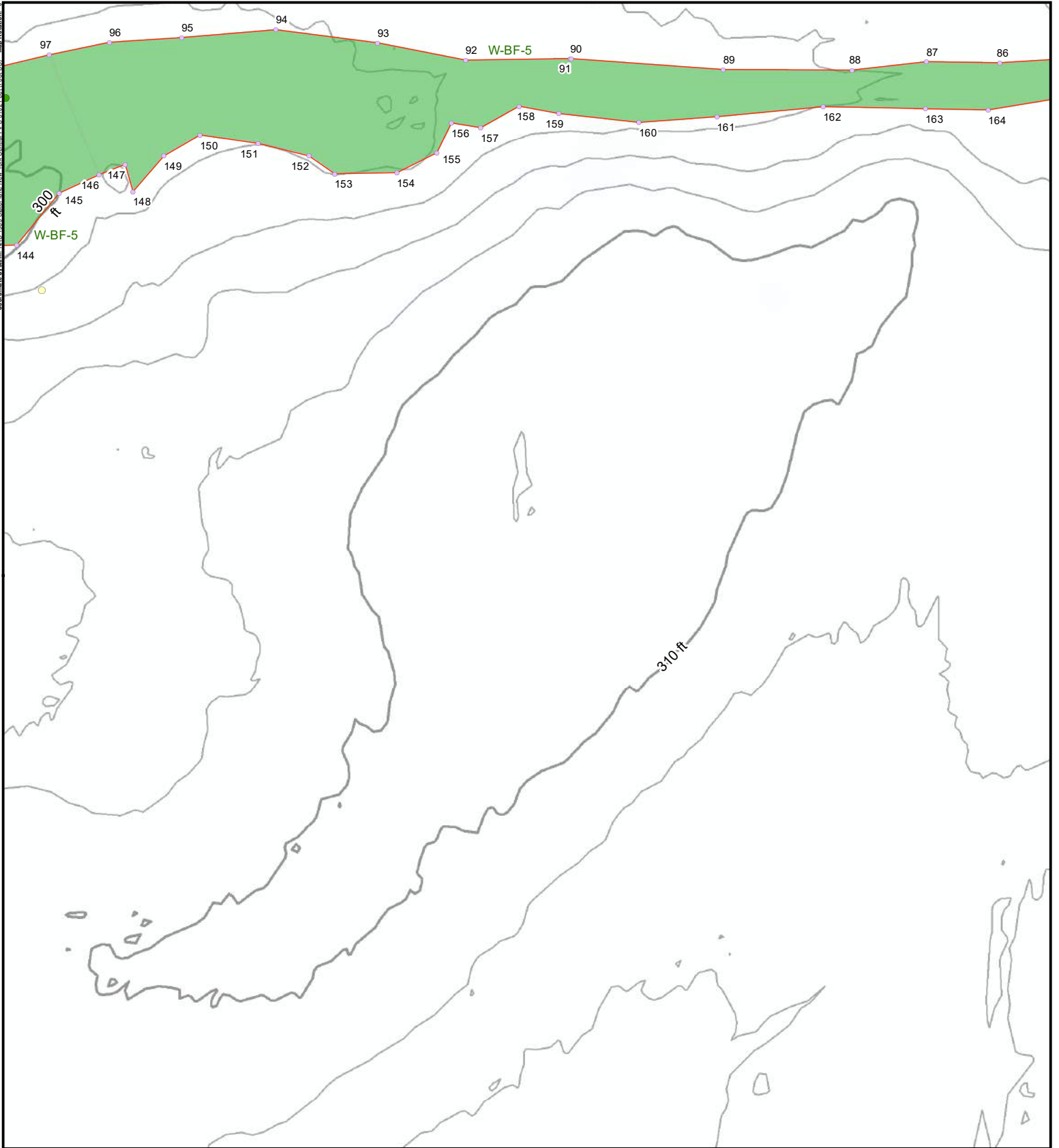
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<b>FIGURE 5</b> SHEET 38 OF 61	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

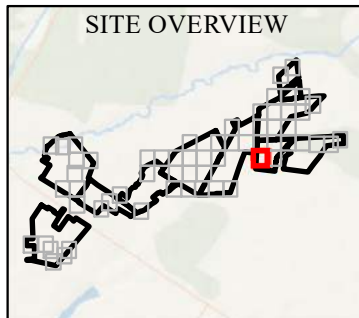
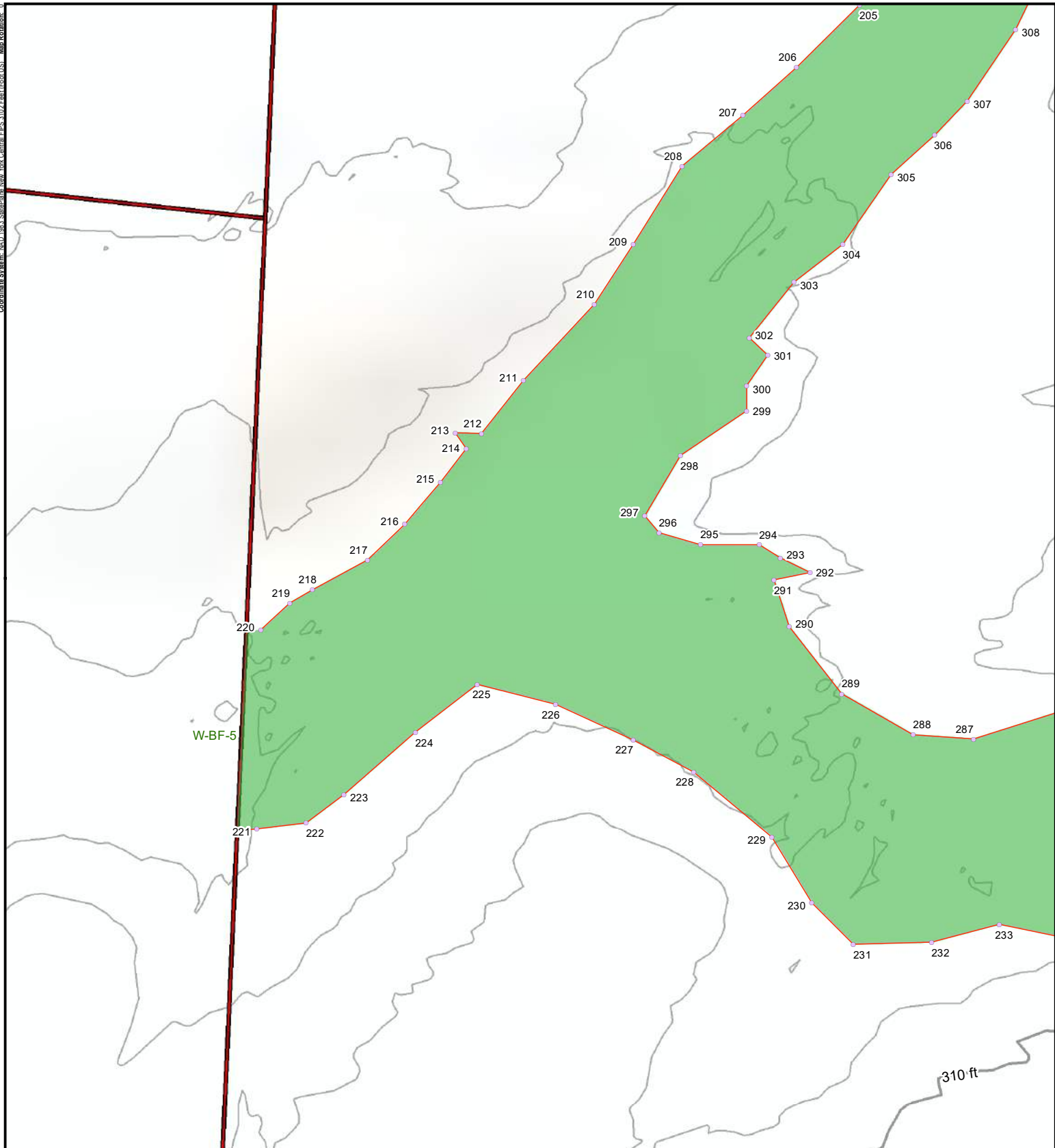
N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 39 OF 61



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND FLAG
- DELINEATED WETLAND (TRC) USACE
- DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

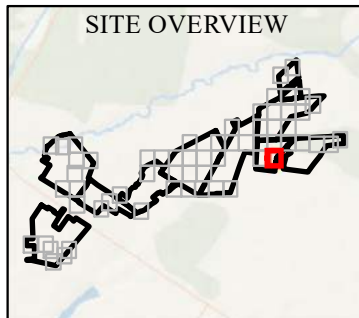
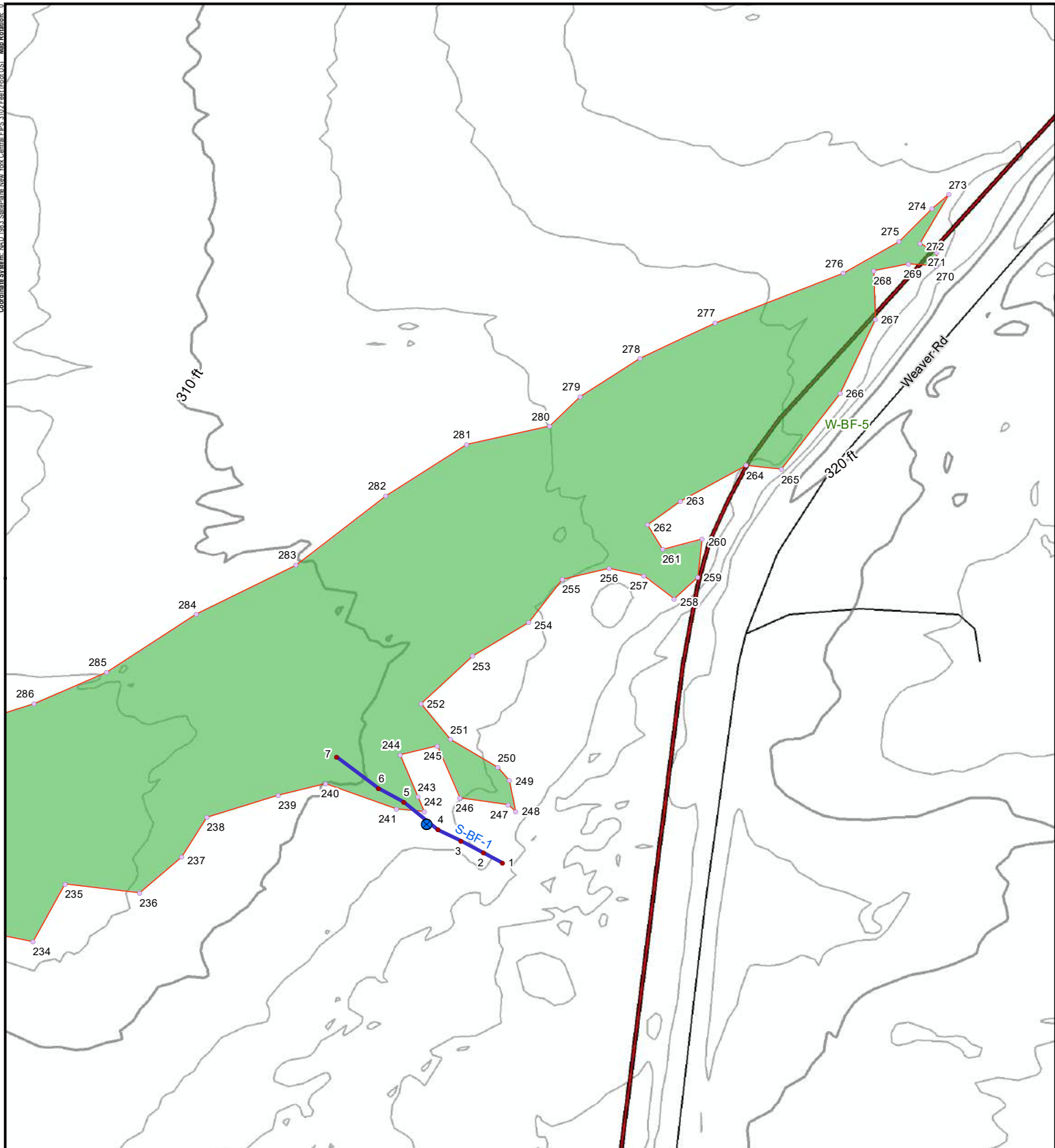
TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY PROJECT NO.: 373222  
 CHECKED BY: R. SPRING  
 APPROVED BY: S. KRANES  
 DATE: MARCH 2021

**FIGURE 5**  
 SHEET 40 OF 61

TRC  
 215 GREENFIELD PKWY, STE 102  
 LIVERPOOL, NY 13088

RIVERSIDE SOLAR



**LEGEND**

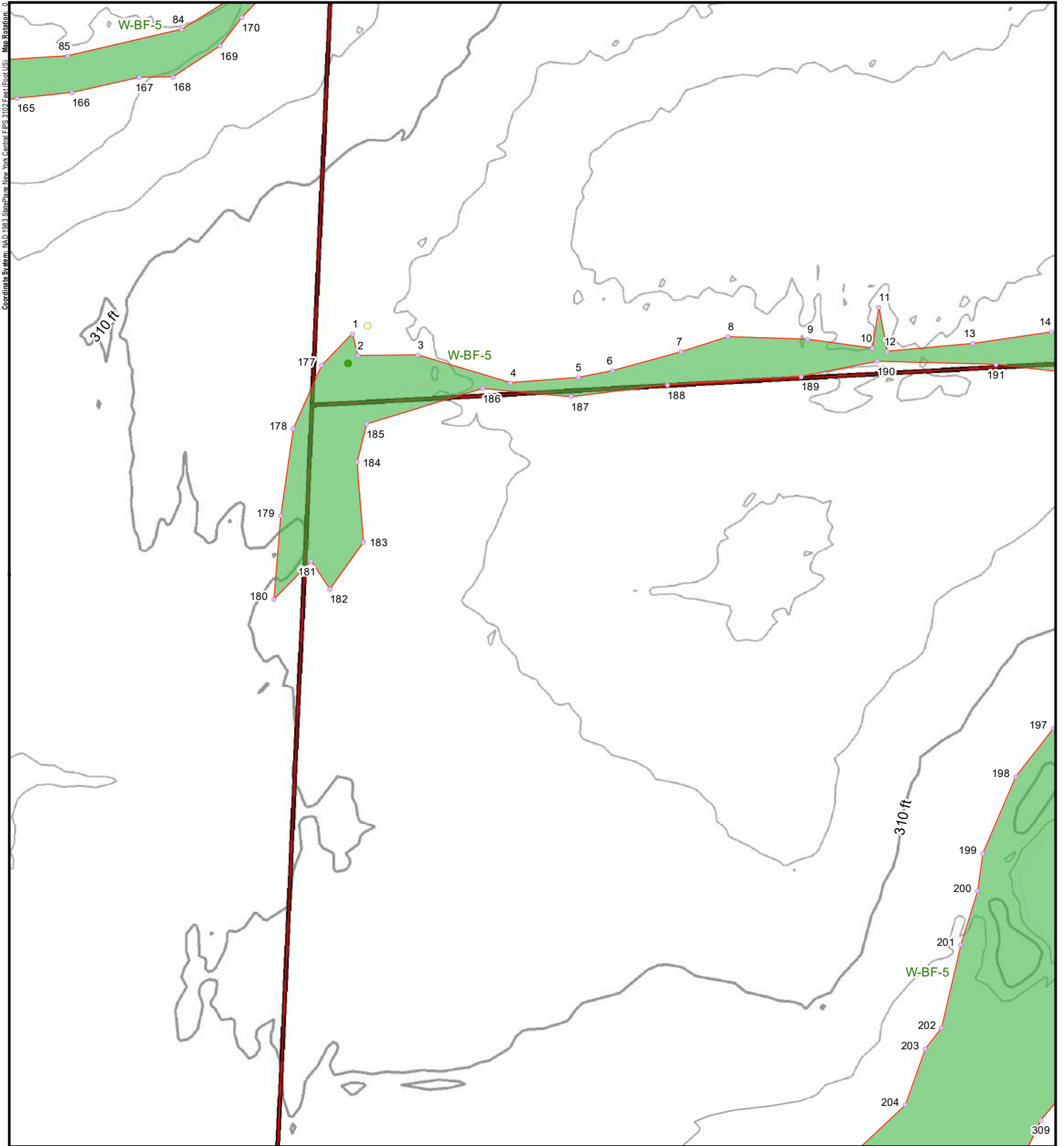
PROJECT AREA	DELINEATED WETLAND (TRC) USACE
STREAM PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED STREAM FLAG	DELINEATED STREAM LINE USACE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

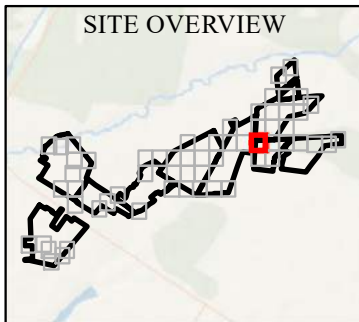
1:1,200 1" = 100'

0 25 50 Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 41 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Resolution: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

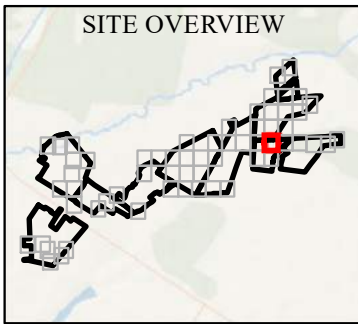
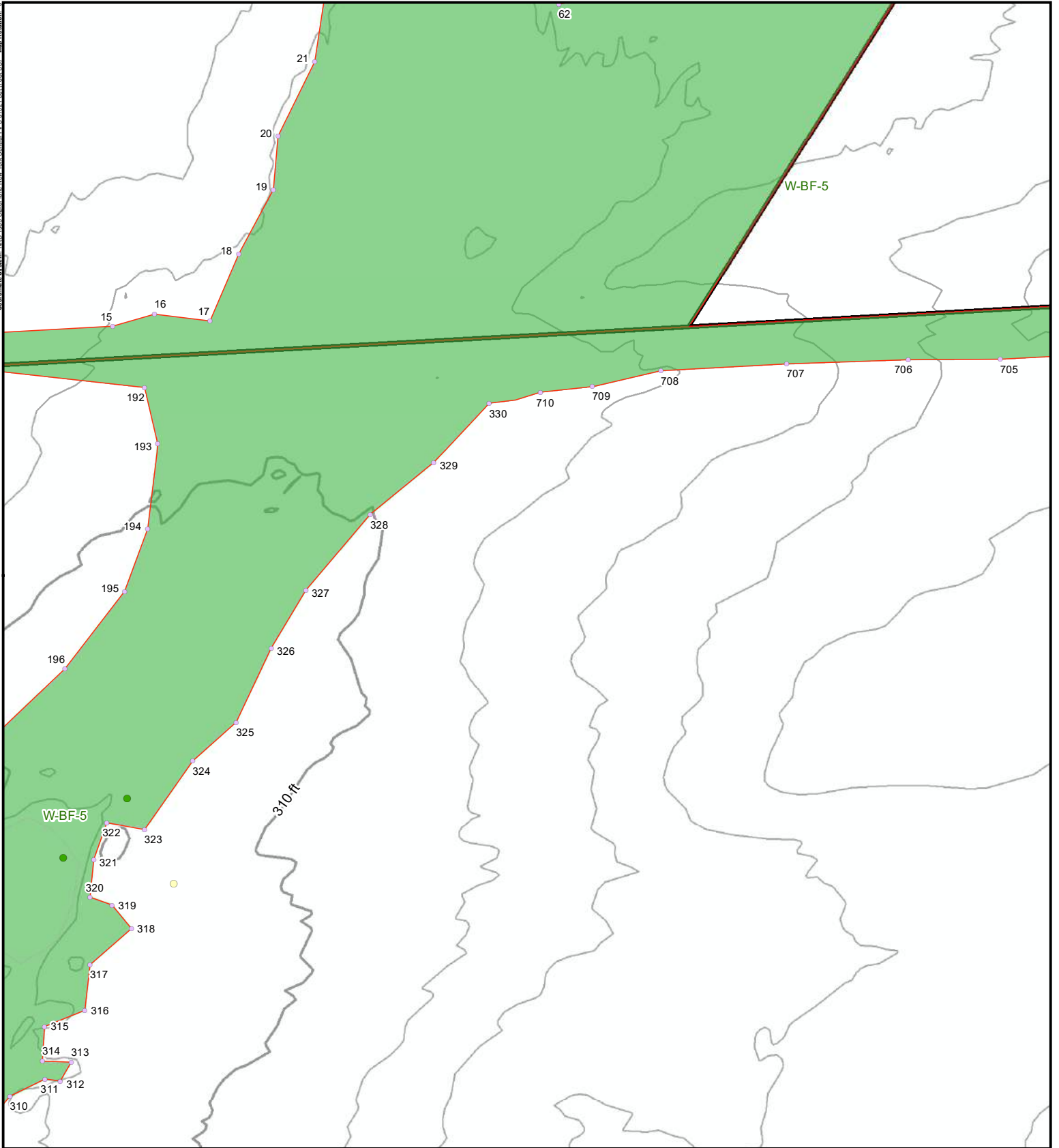
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 42 OF 61





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

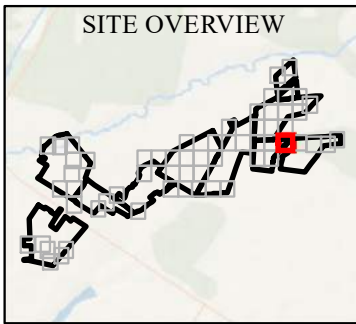
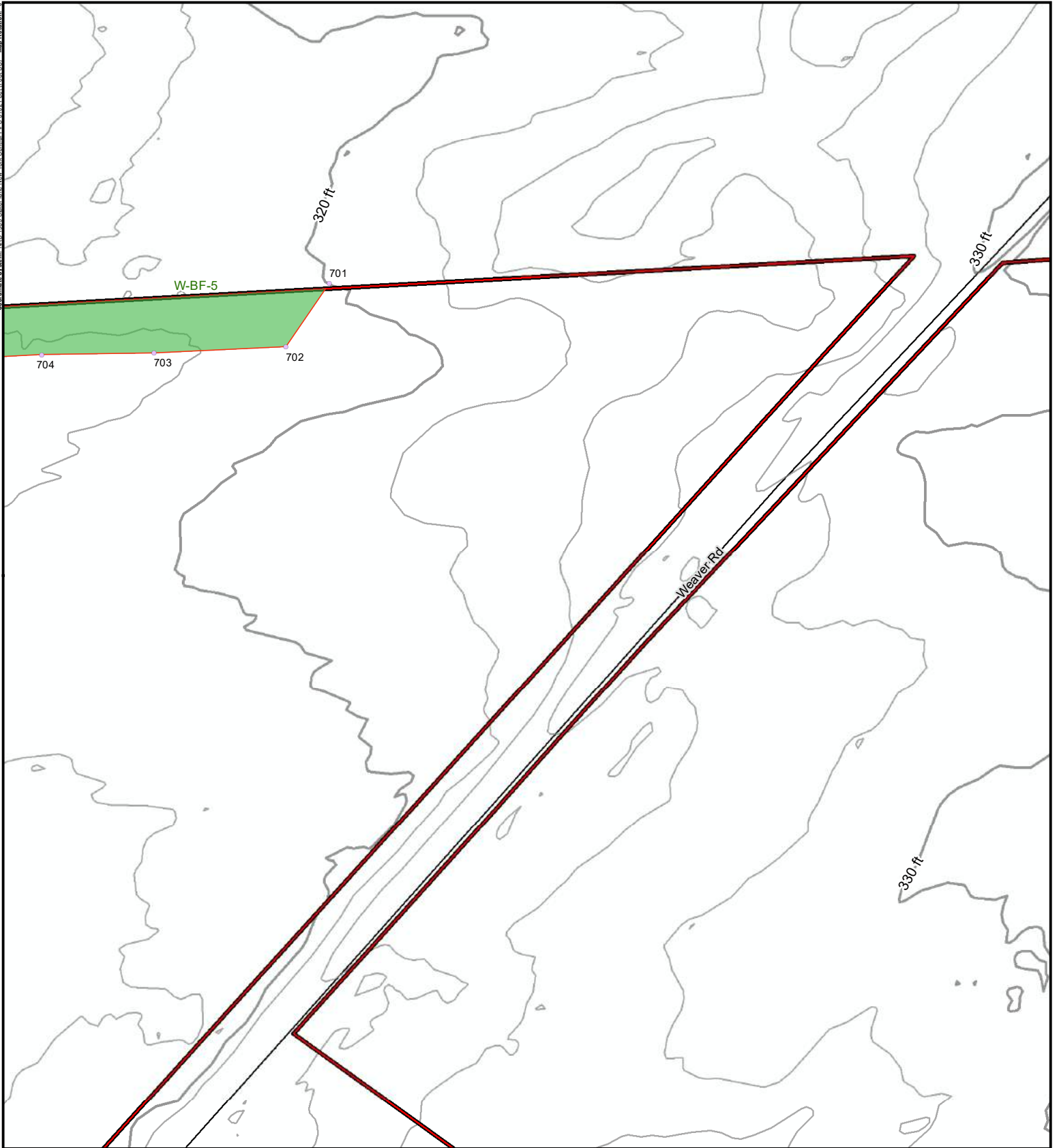
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 43 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

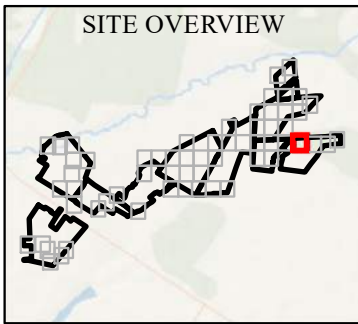
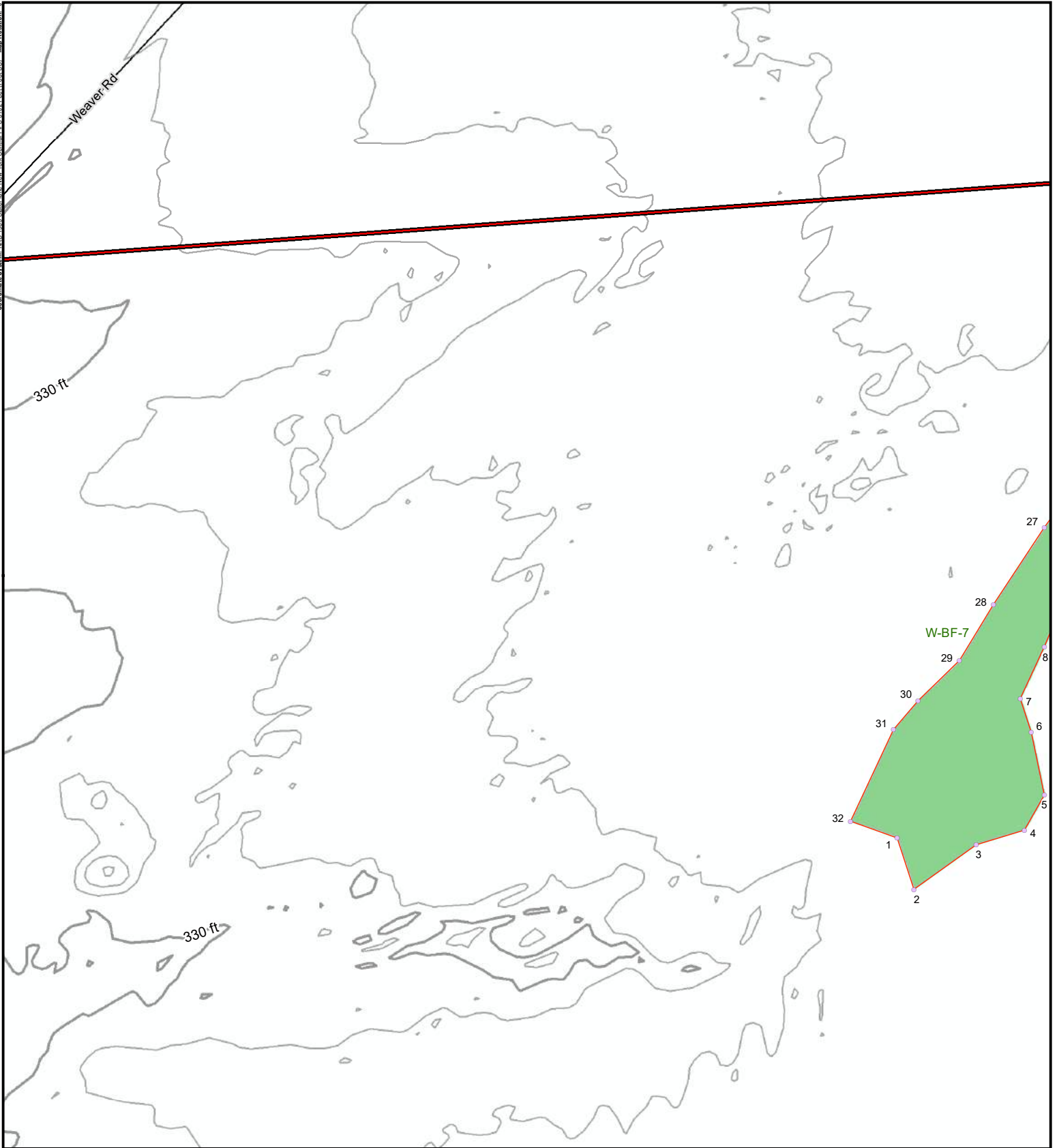
1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 44 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

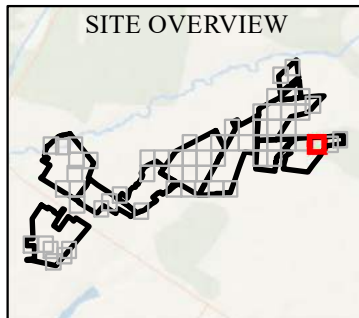
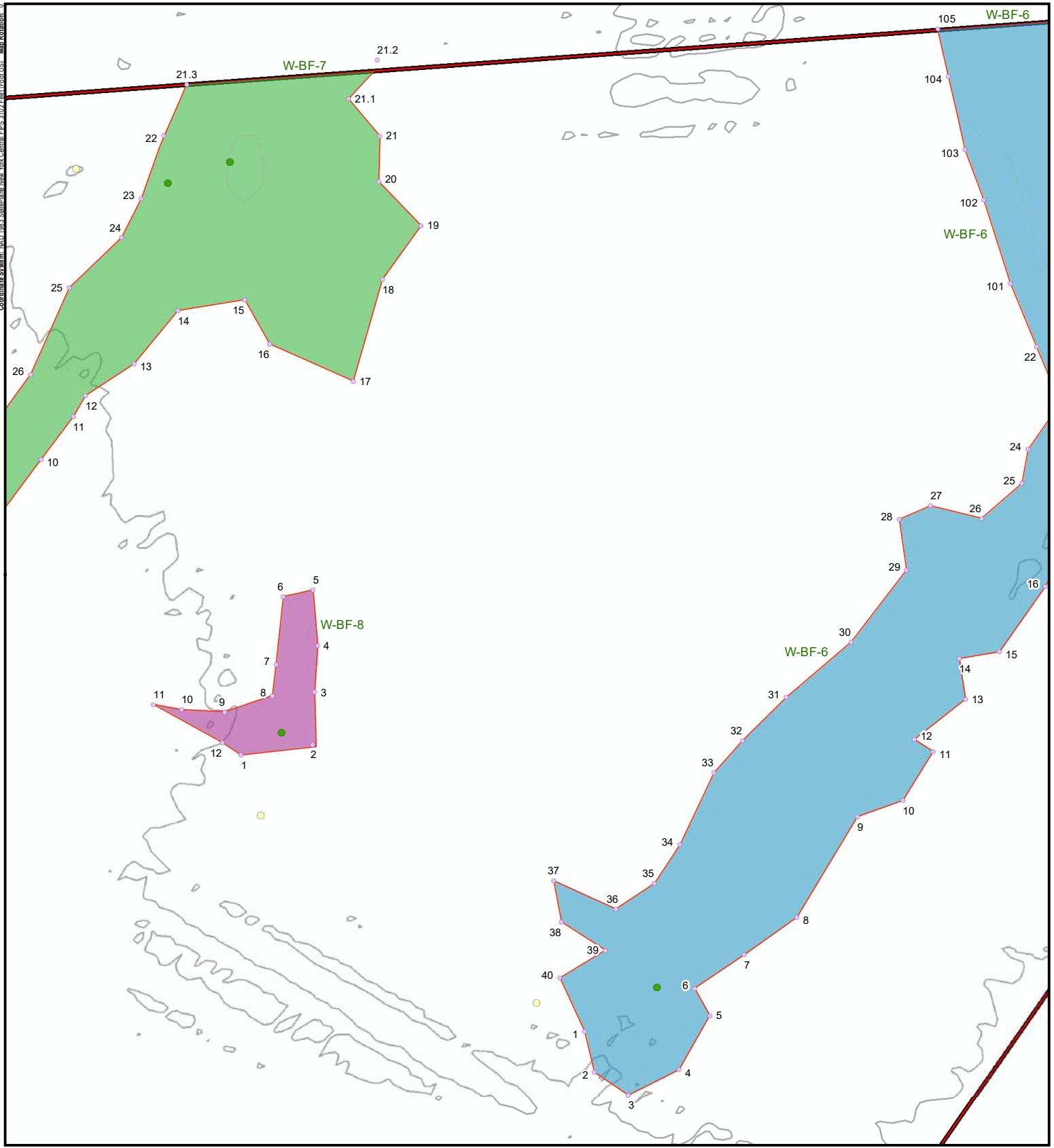
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 45 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) NON-JURISDICTIONAL
WETLAND PLOT	USACE
UPLAND PLOT	USACE/NYSDEC
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC  
 TOWNS OF LYME & BROWNVILLE  
 JEFFERSON COUNTY, NY

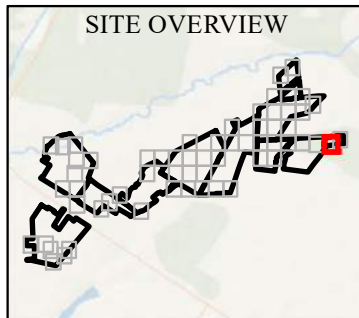
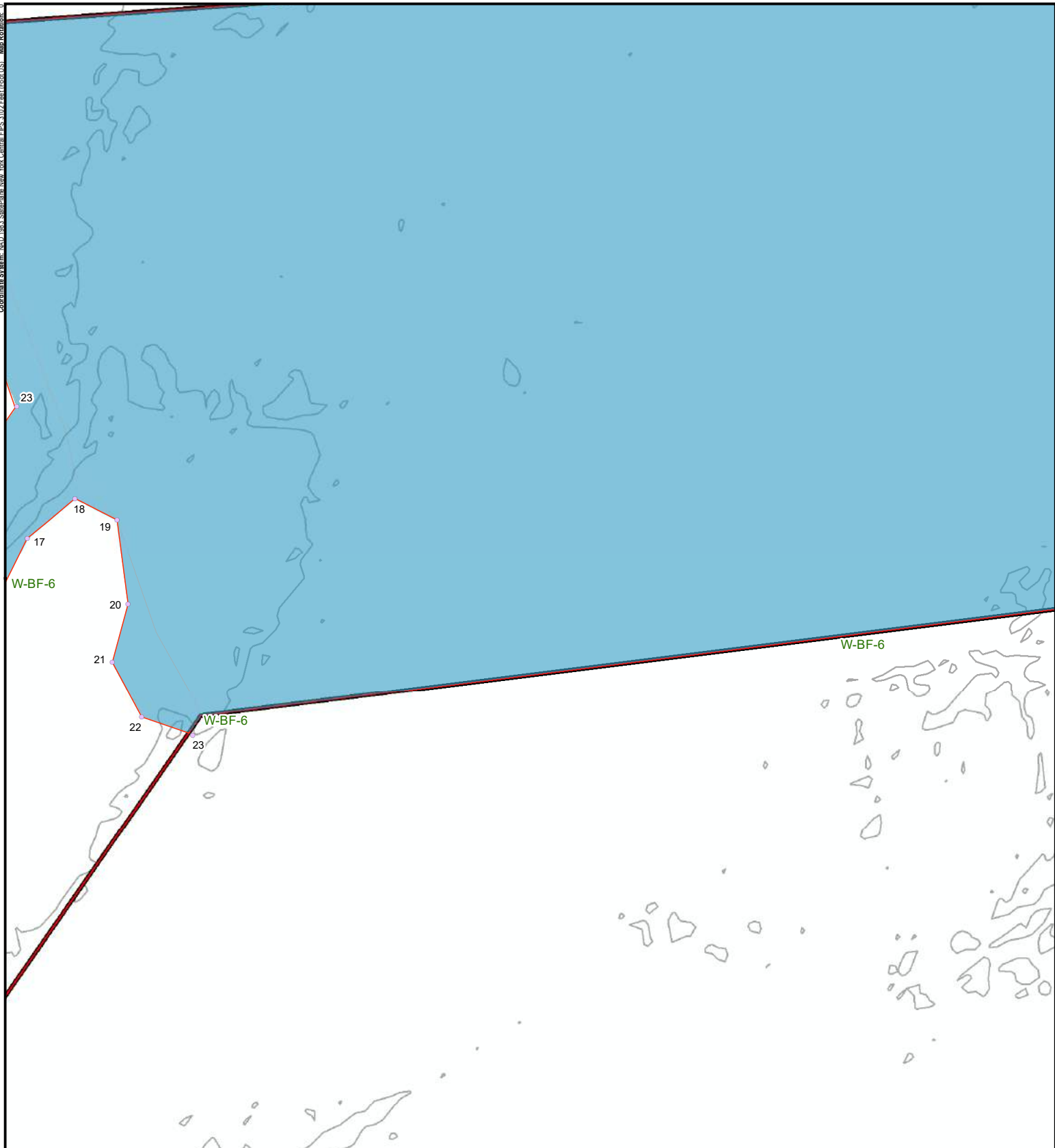
TITLE: **DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS**

DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	

**FIGURE 5**  
 SHEET 46 OF 61

 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
---	--

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Resolution: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
DELINEATED WETLAND FLAG	USACE/NYSDEC
	DELINEATED WETLAND BOUNDARY LINE

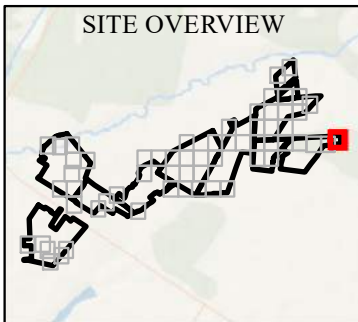
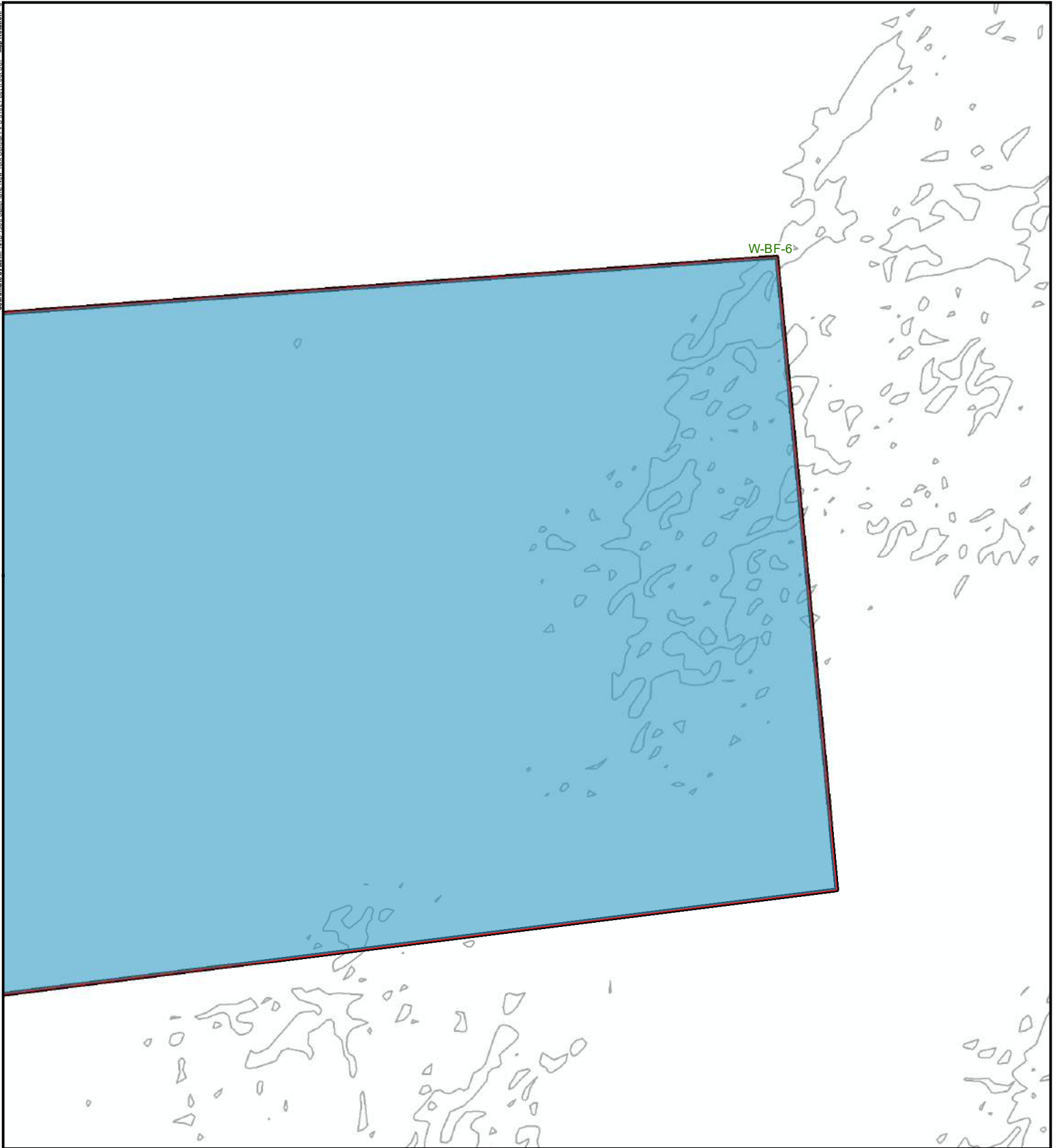
1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 47 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND (TRC)
- USACE/NYSDEC

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

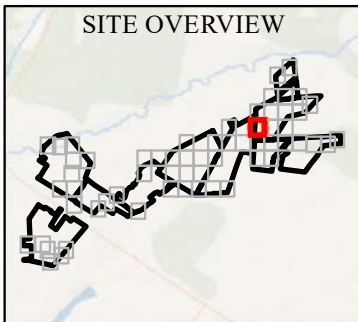
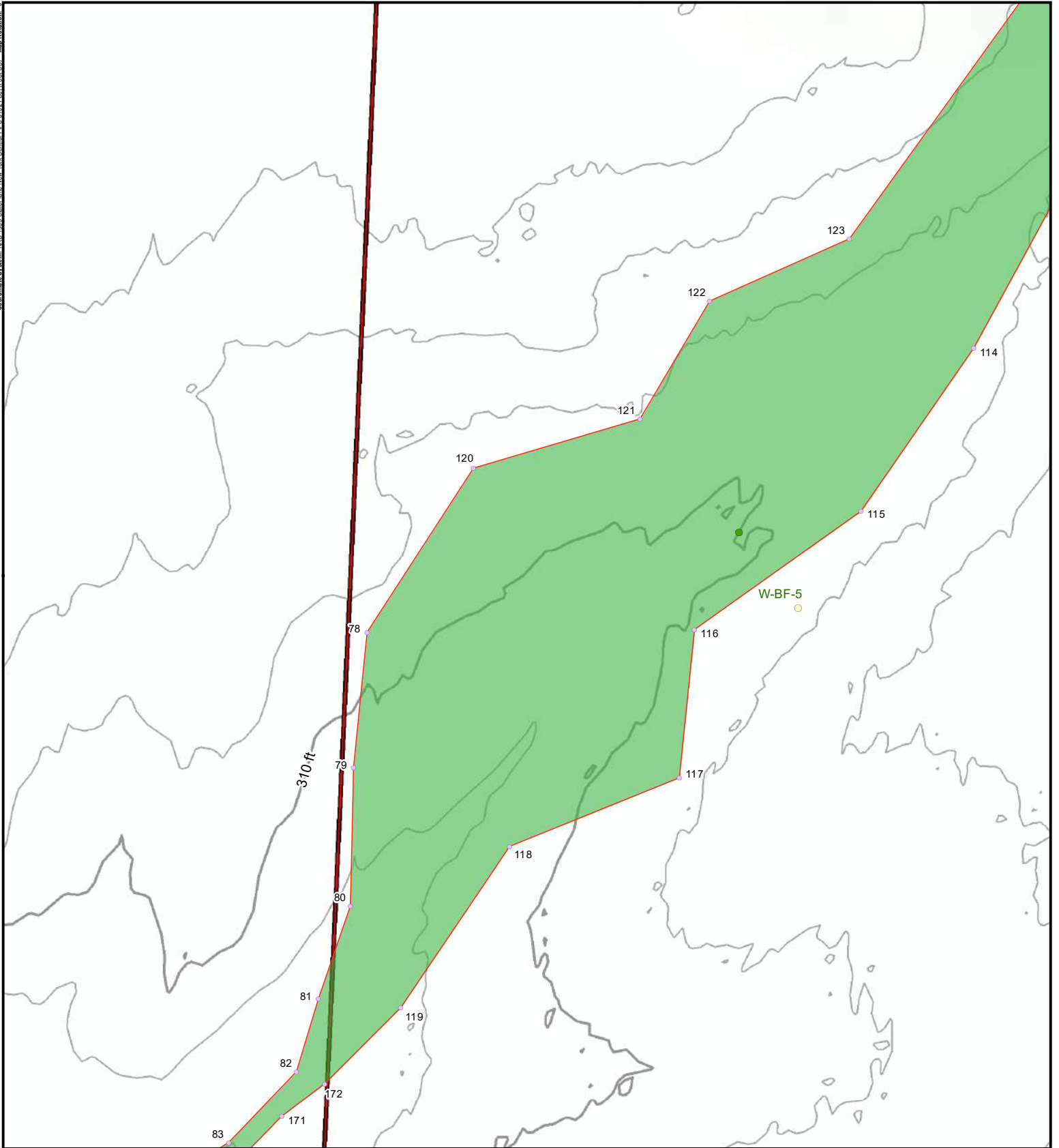
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 48 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

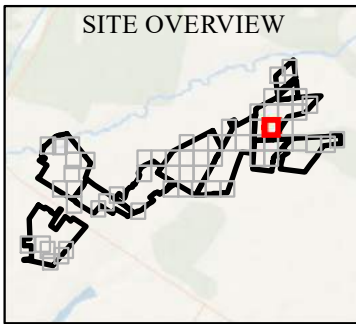
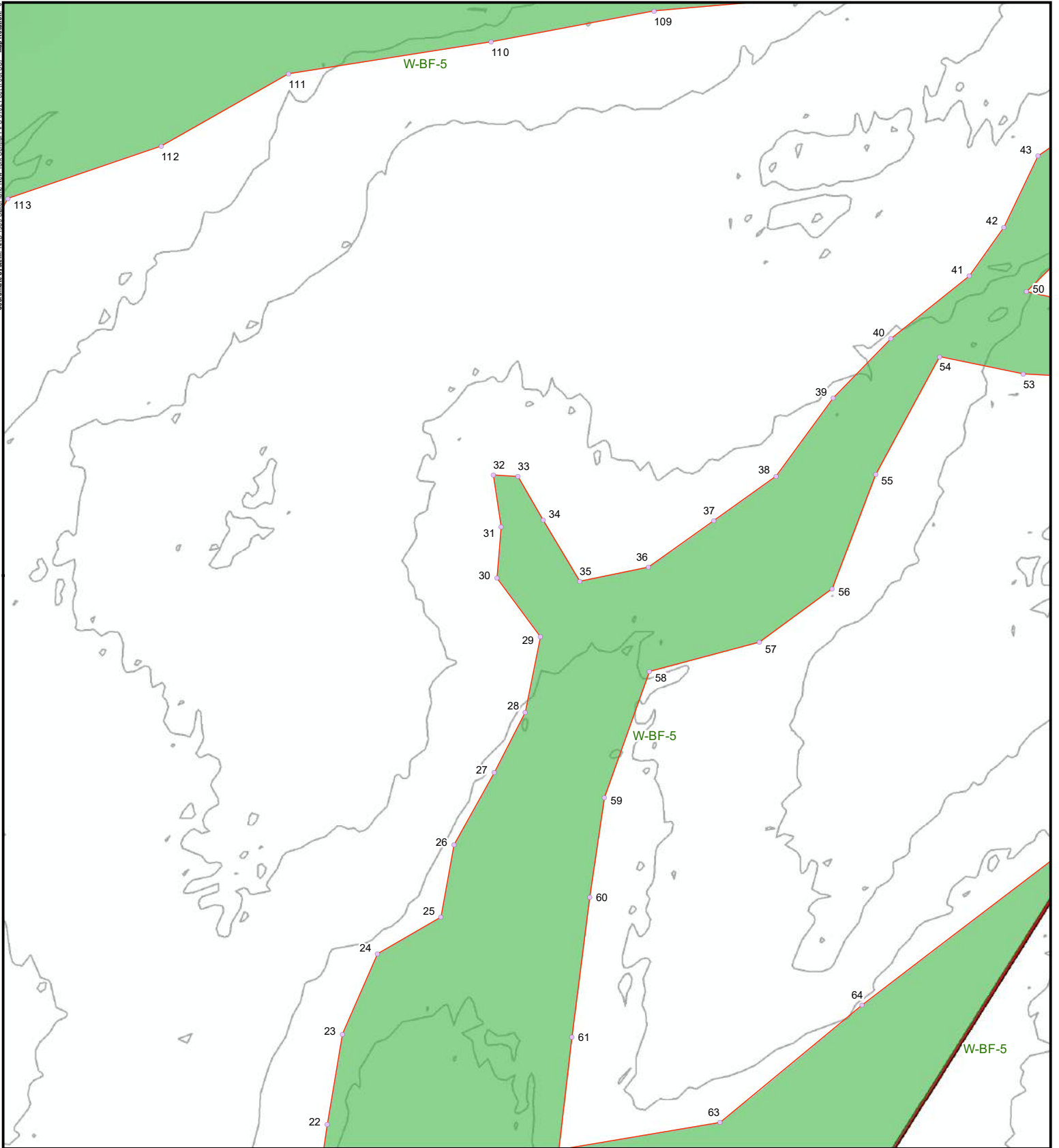
1. BASEMAP IMAGERY FROM ESRI  
 \*TERRAIN\* MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 49 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

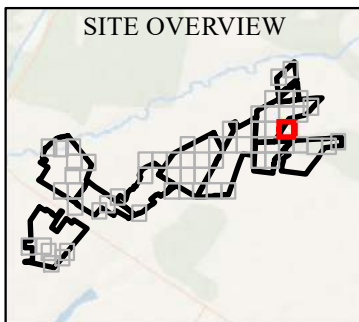
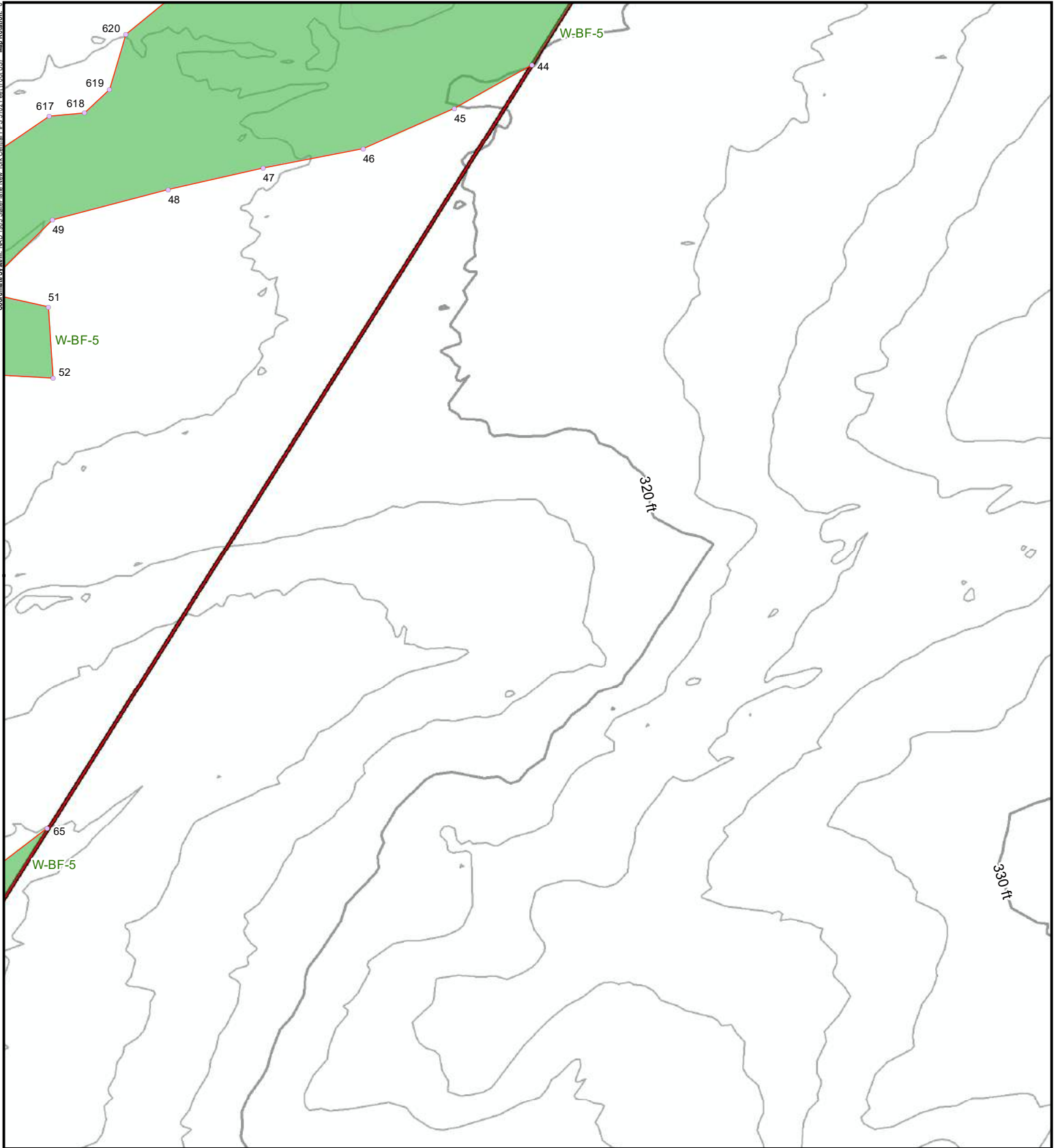
PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100' Feet

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
<b>FIGURE 5</b> SHEET 50 OF 61	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

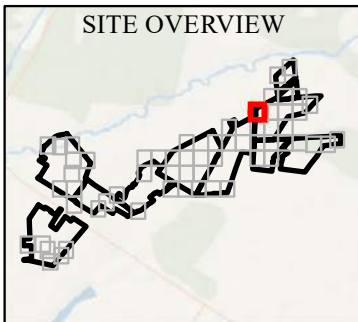
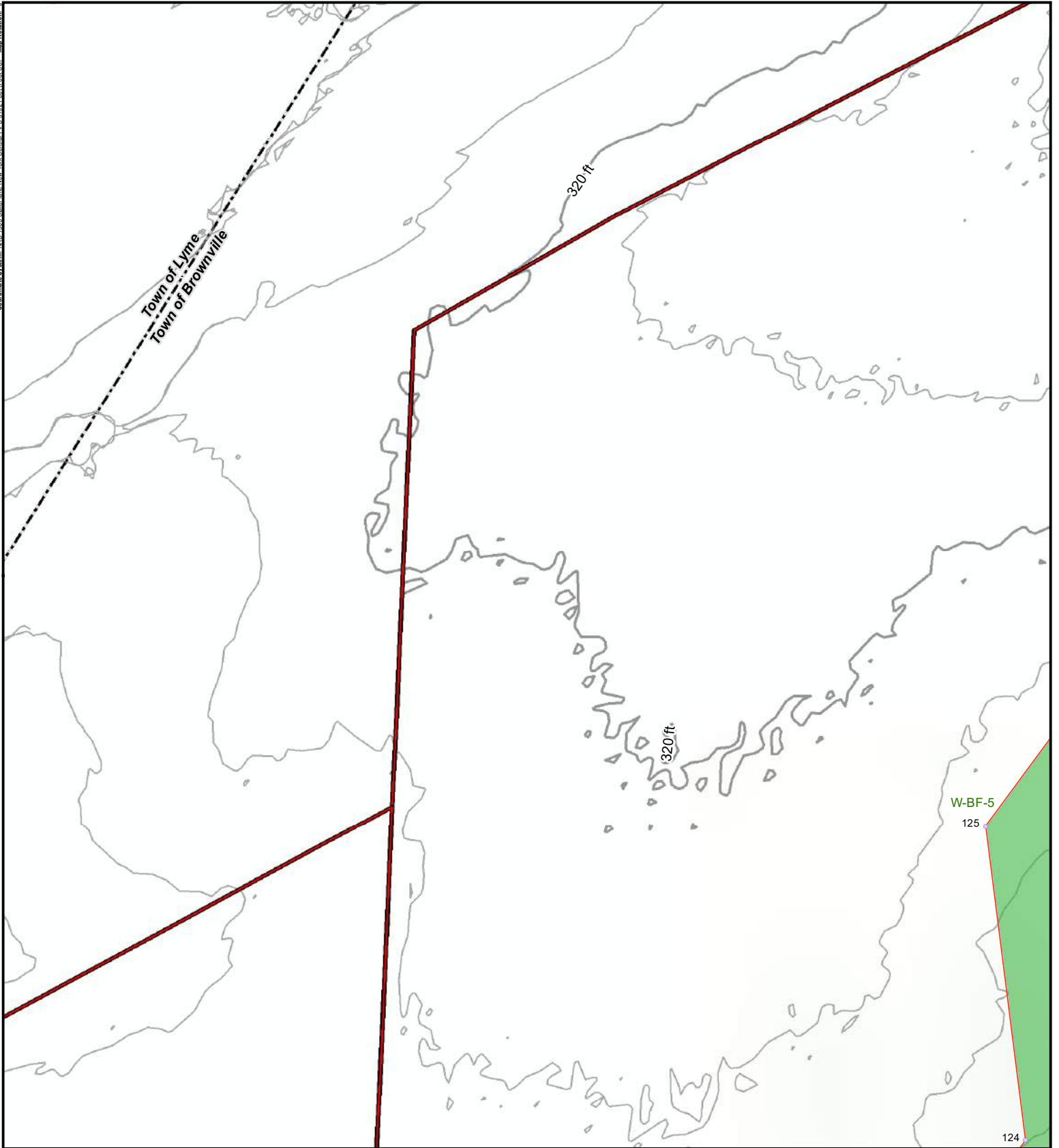
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 51 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
DELINEATED WETLAND FLAG	USACE
	DELINEATED WETLAND BOUNDARY LINE

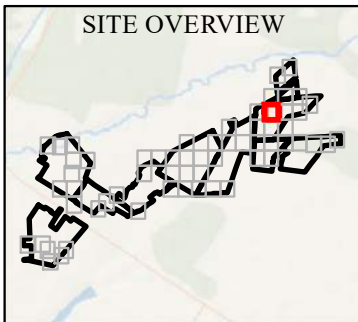
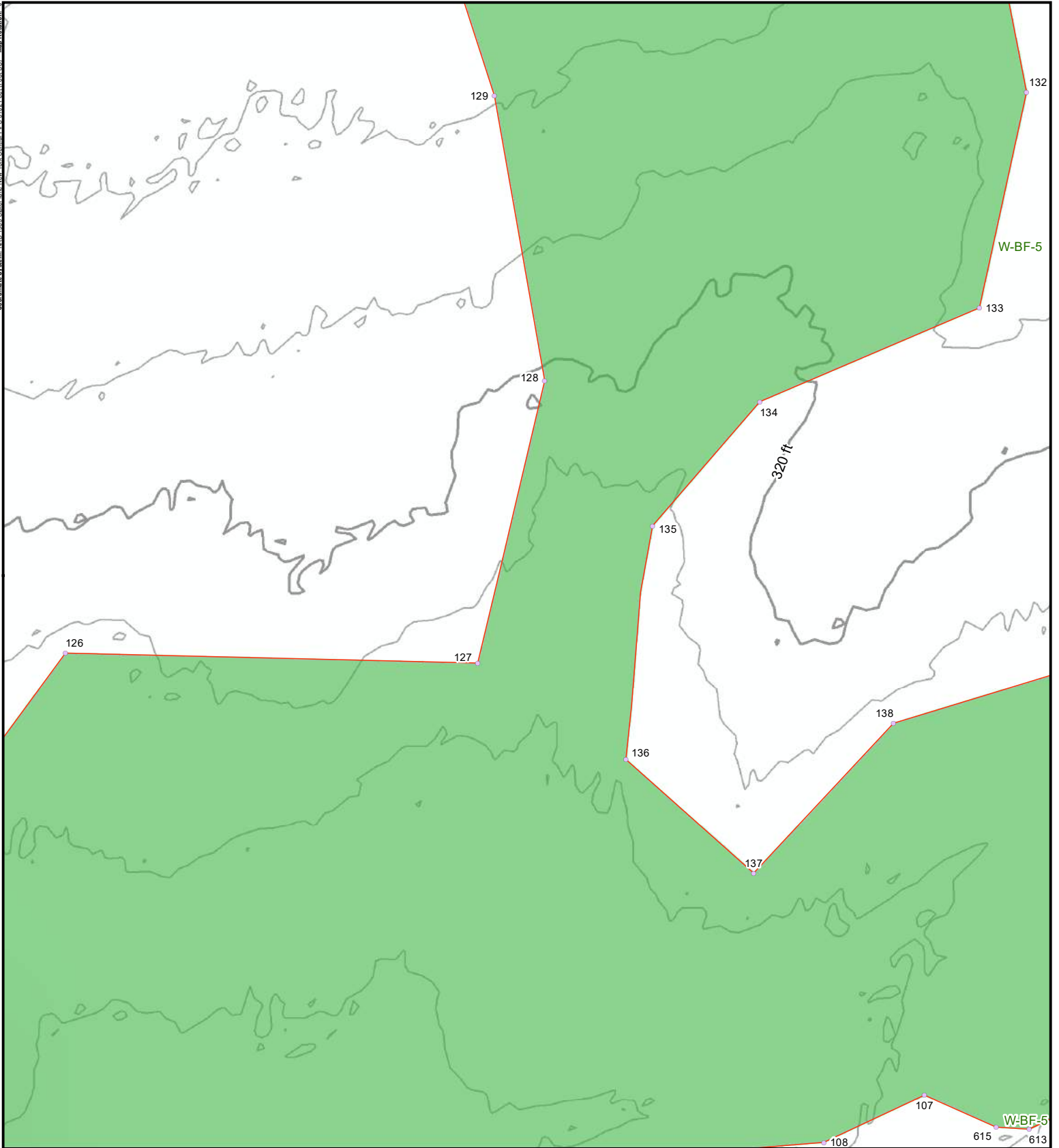
1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 52 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

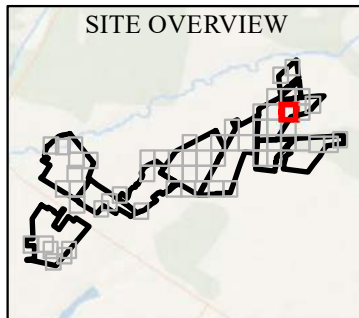
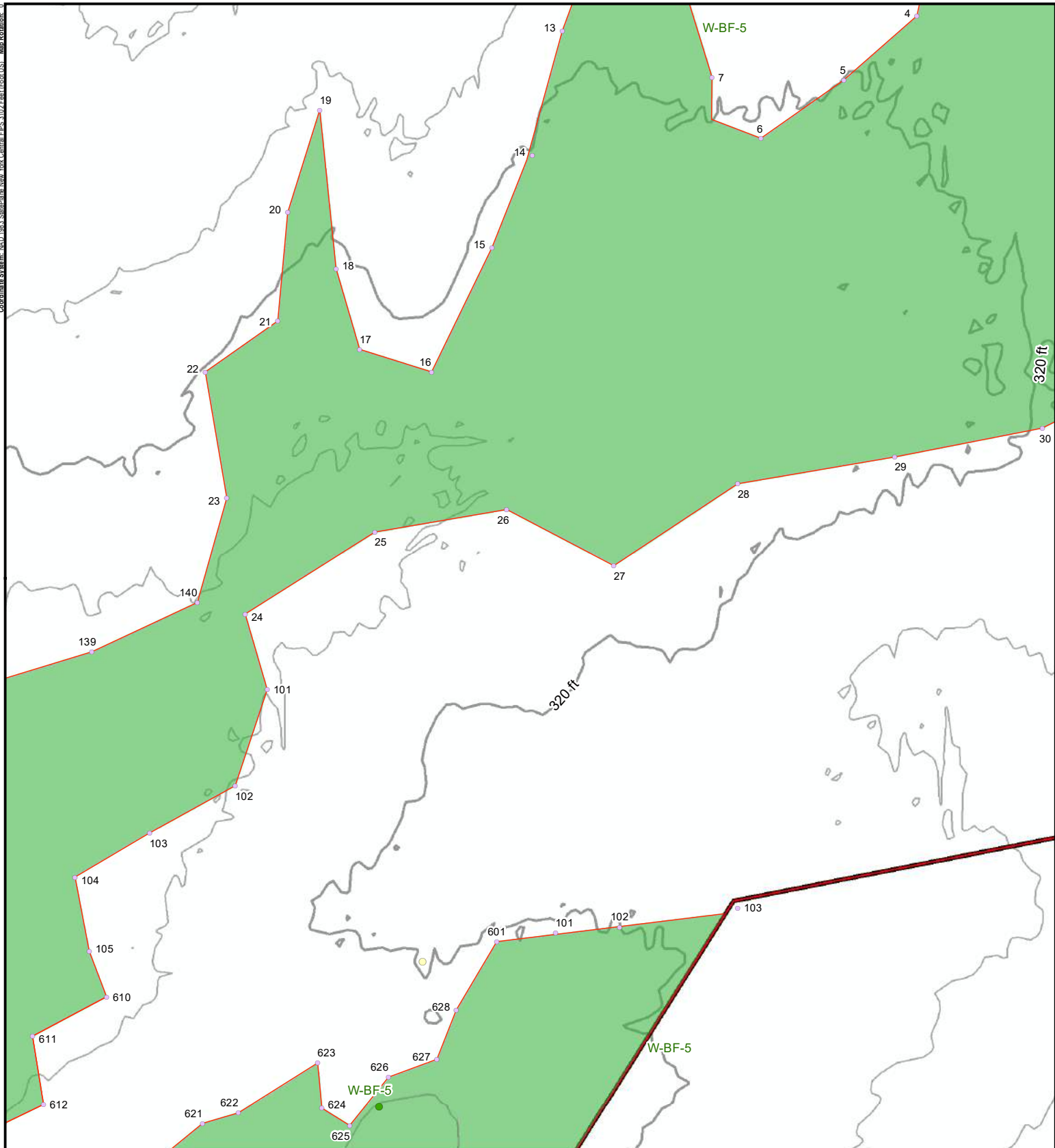
1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 53 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

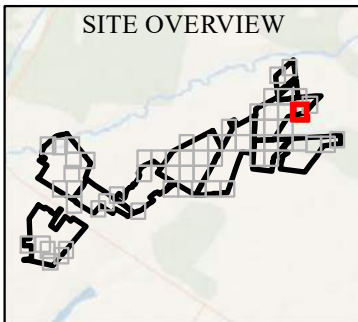
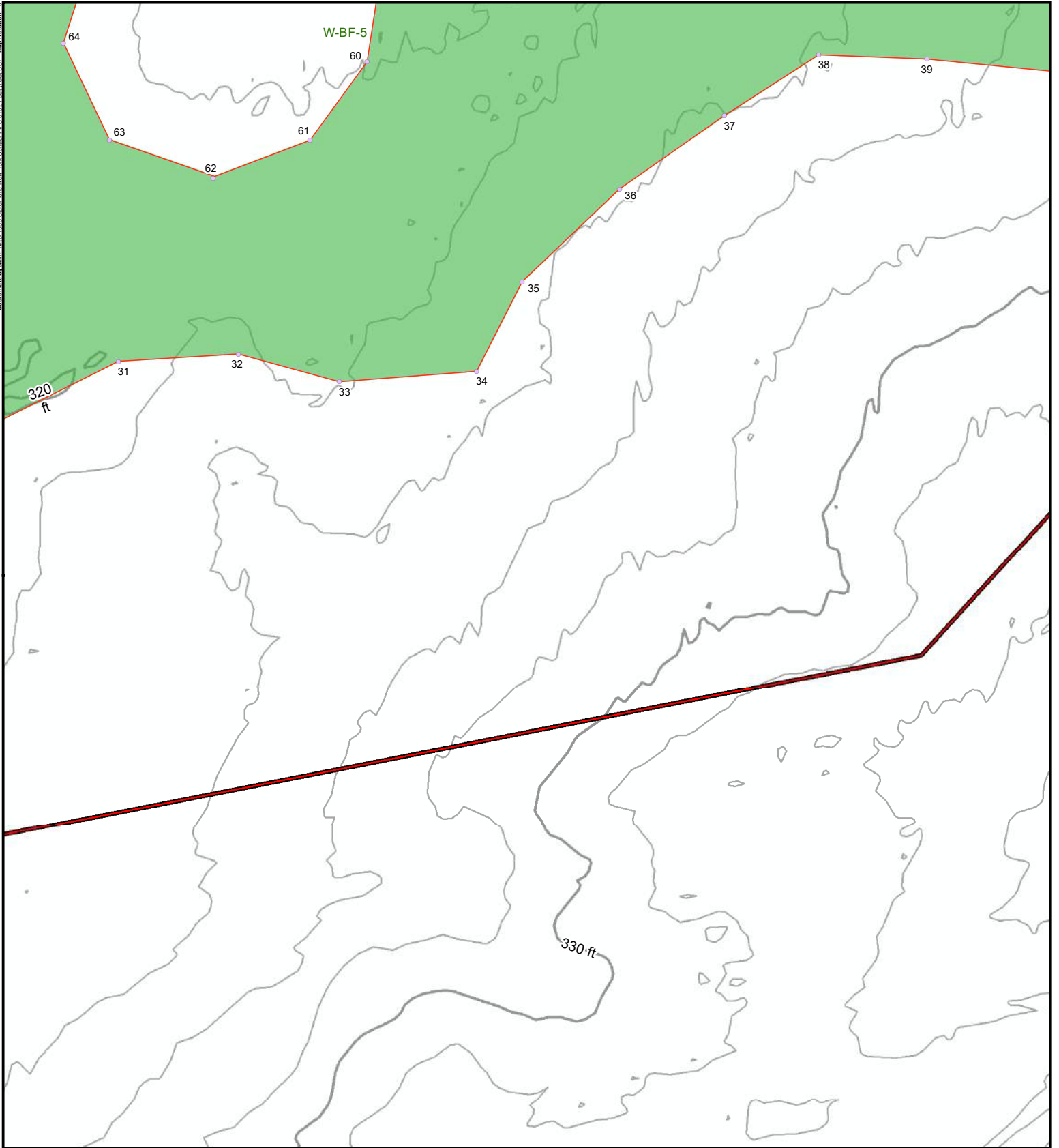
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 54 OF 61





**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND FLAG
- DELINEATED WETLAND (TRC)
- USACE
- DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

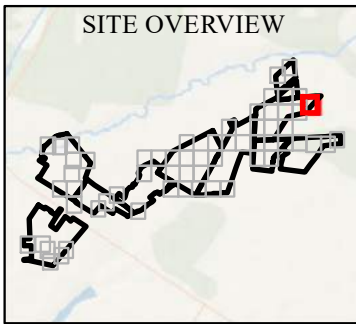
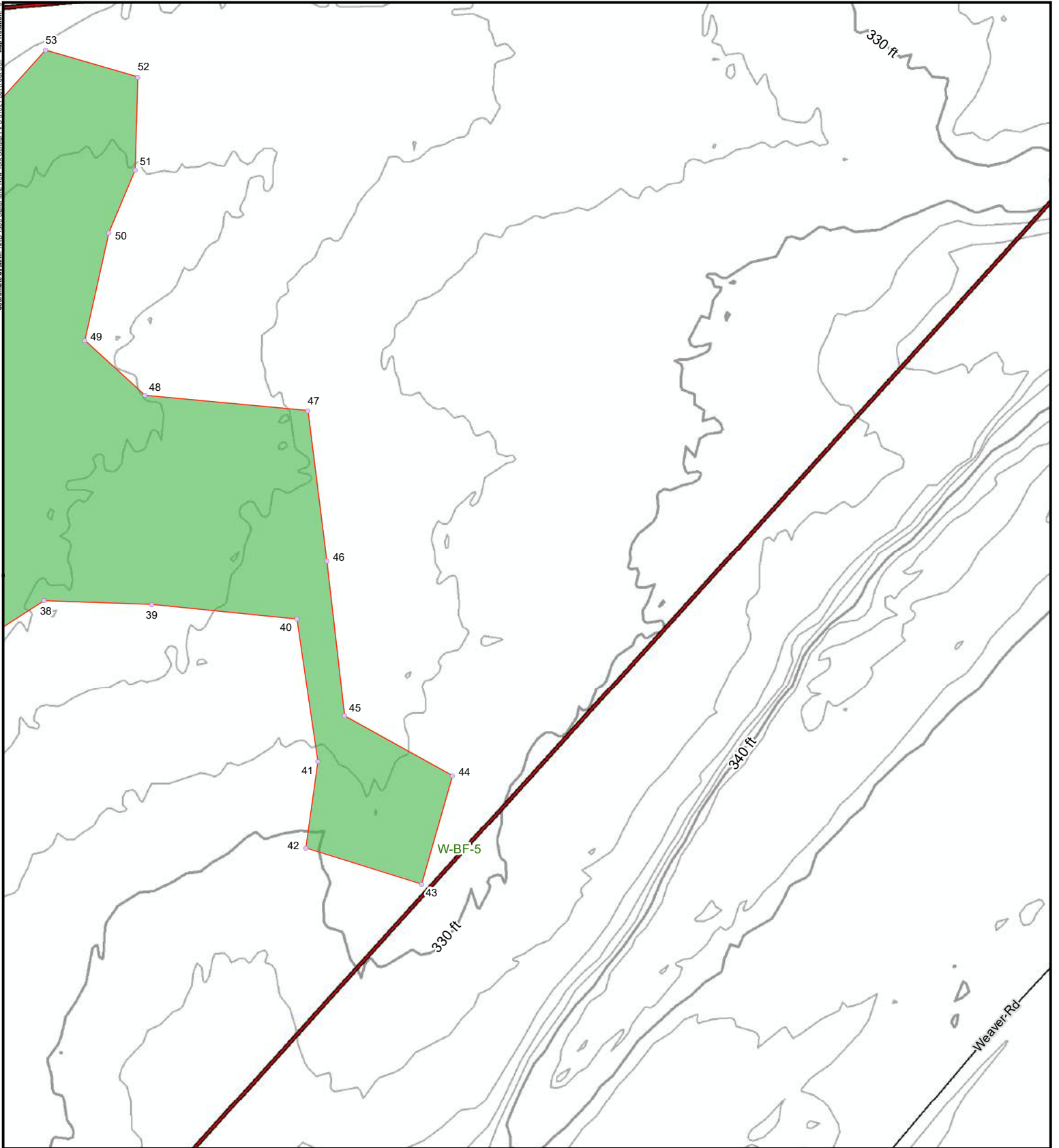
1:1,200 1" = 100'

0 25 50 Feet

N

<b>PROJECT</b> RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
<b>TITLE</b> DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
PROJECT NO.: 373222	
<b>FIGURE 5</b> SHEET 55 OF 61	
 <b>TRC</b> 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot US) Map Rotation: 0



**LEGEND**

- PROJECT AREA
- DELINEATED WETLAND FLAG
- DELINEATED WETLAND (TRC)
- USACE
- DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

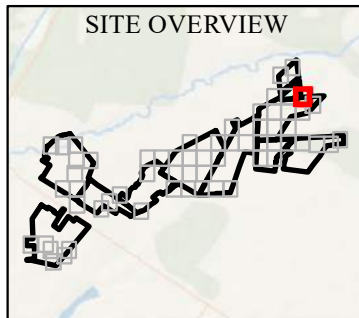
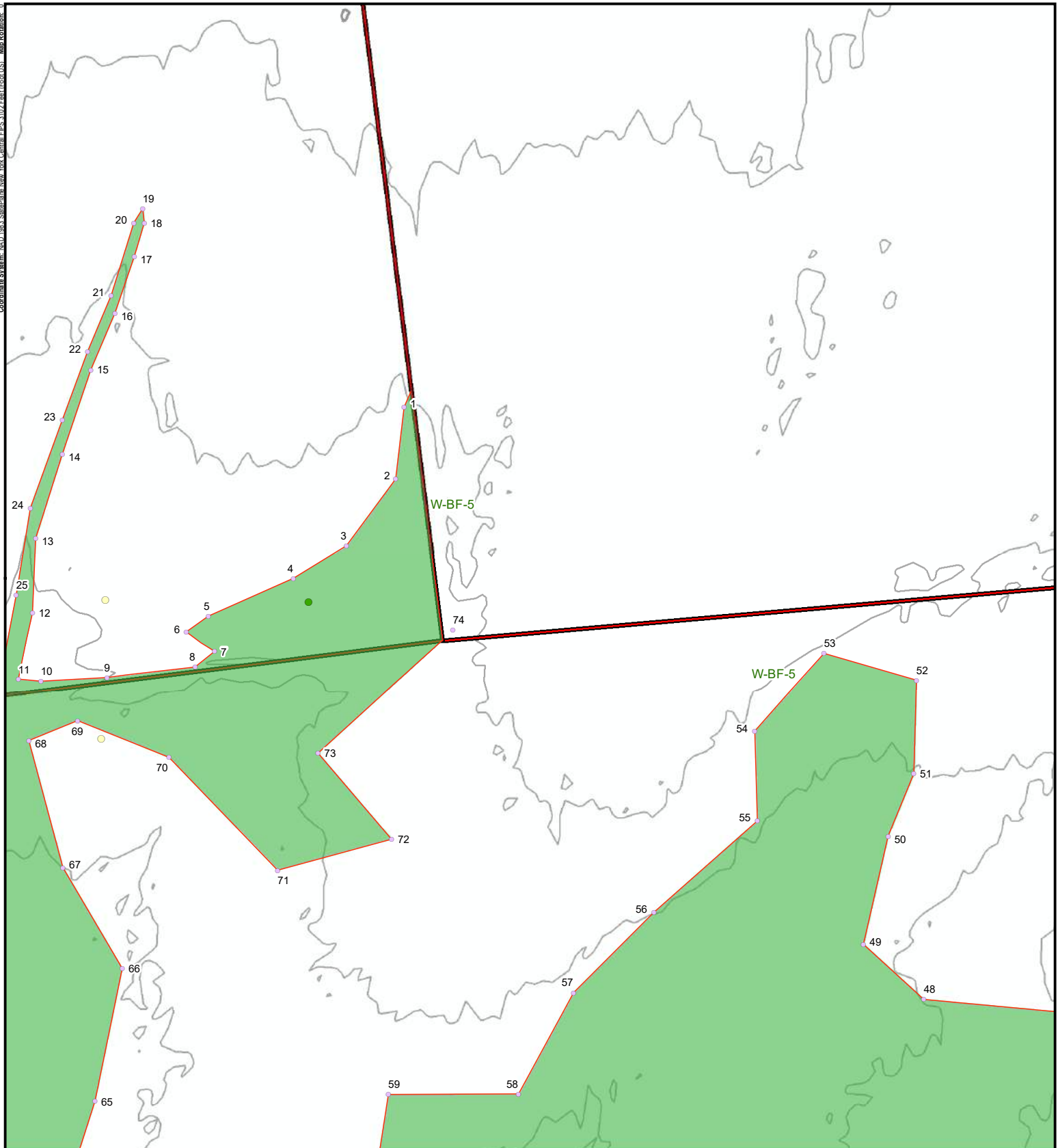
1:1,200 1" = 100'

0 25 50 Feet

N

<b>PROJECT</b> RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
<b>TITLE</b> DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. SPRING
APPROVED BY:	S. KRANES
DATE:	MARCH 2021
PROJECT NO.:	373222
<b>FIGURE 5</b> SHEET 56 OF 61	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	USACE
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

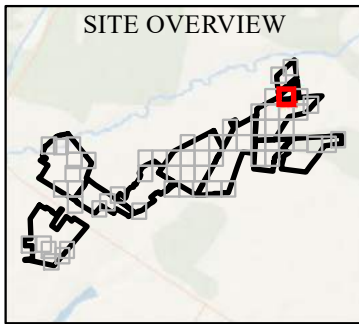
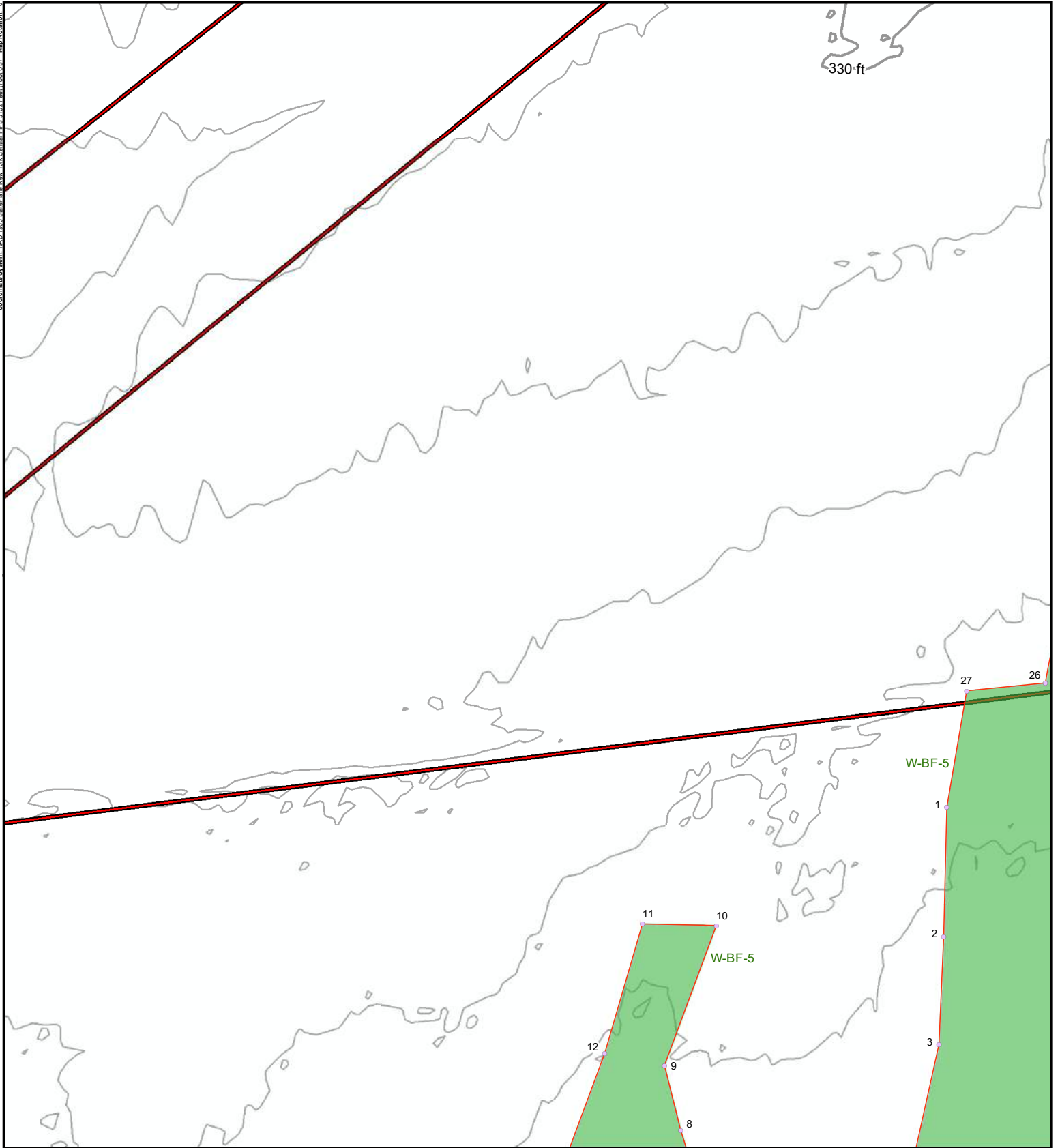
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 57 OF 61





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

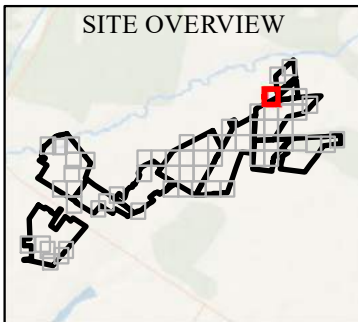
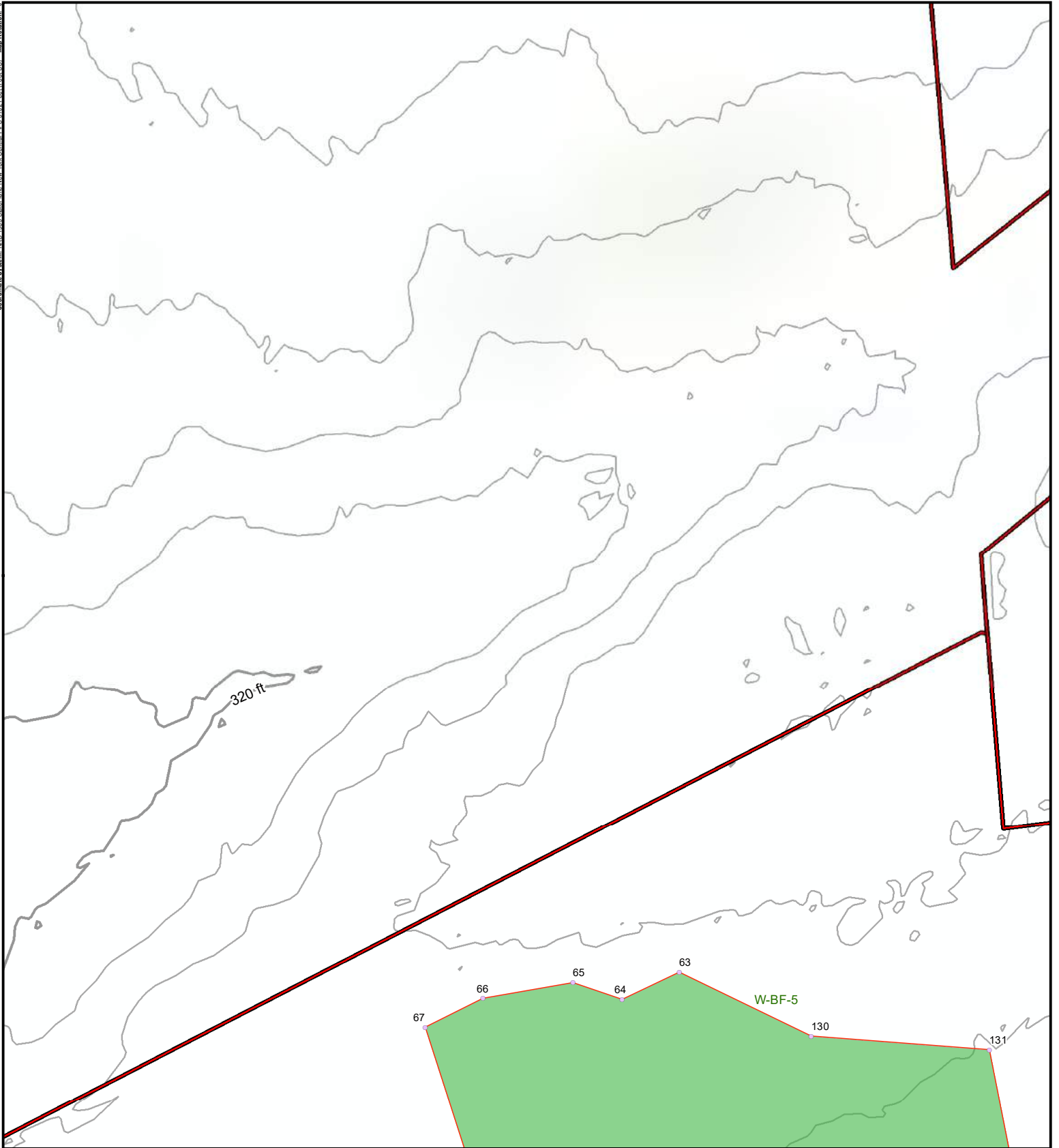
1. BASEMAP IMAGERY FROM ESRI  
 "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 58 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC) USACE
DELINEATED WETLAND FLAG	DELINEATED WETLAND BOUNDARY LINE

1. BASEMAP IMAGERY FROM ESRI  
 2. "TERRAIN" MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

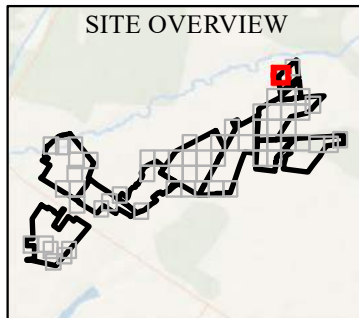
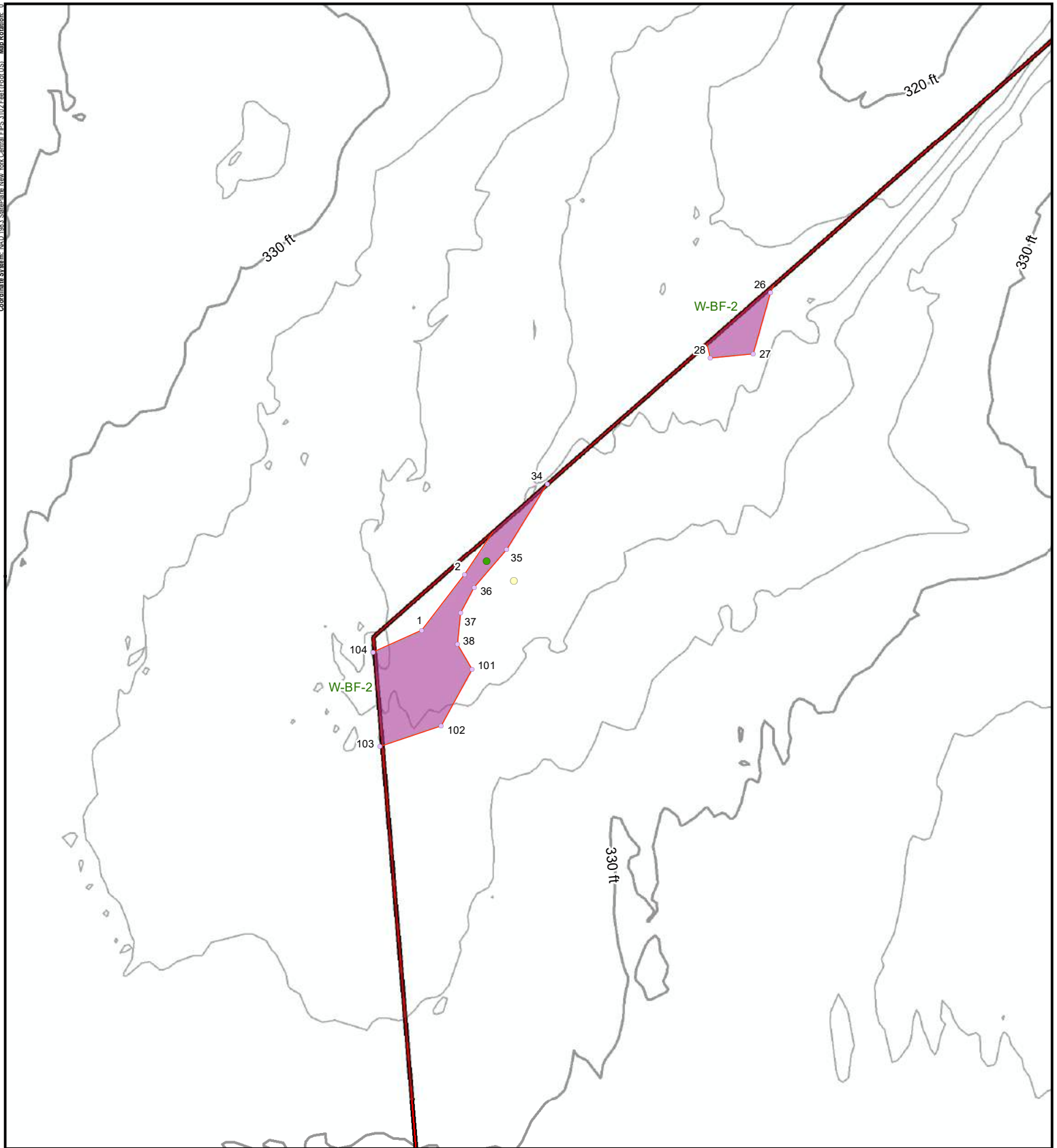
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 59 OF 61

Coordinate System: NAD\_1983\_StatePlane\_New\_York\_Central\_FIPS\_3102 Feet (Foot, US) Map Rotation: 0



**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	NON-JURISDICTIONAL
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN™ MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 2. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

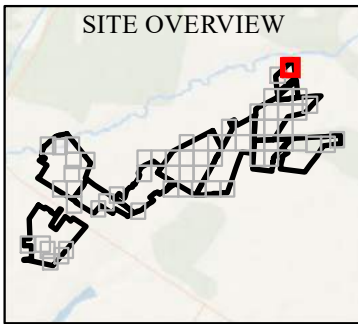
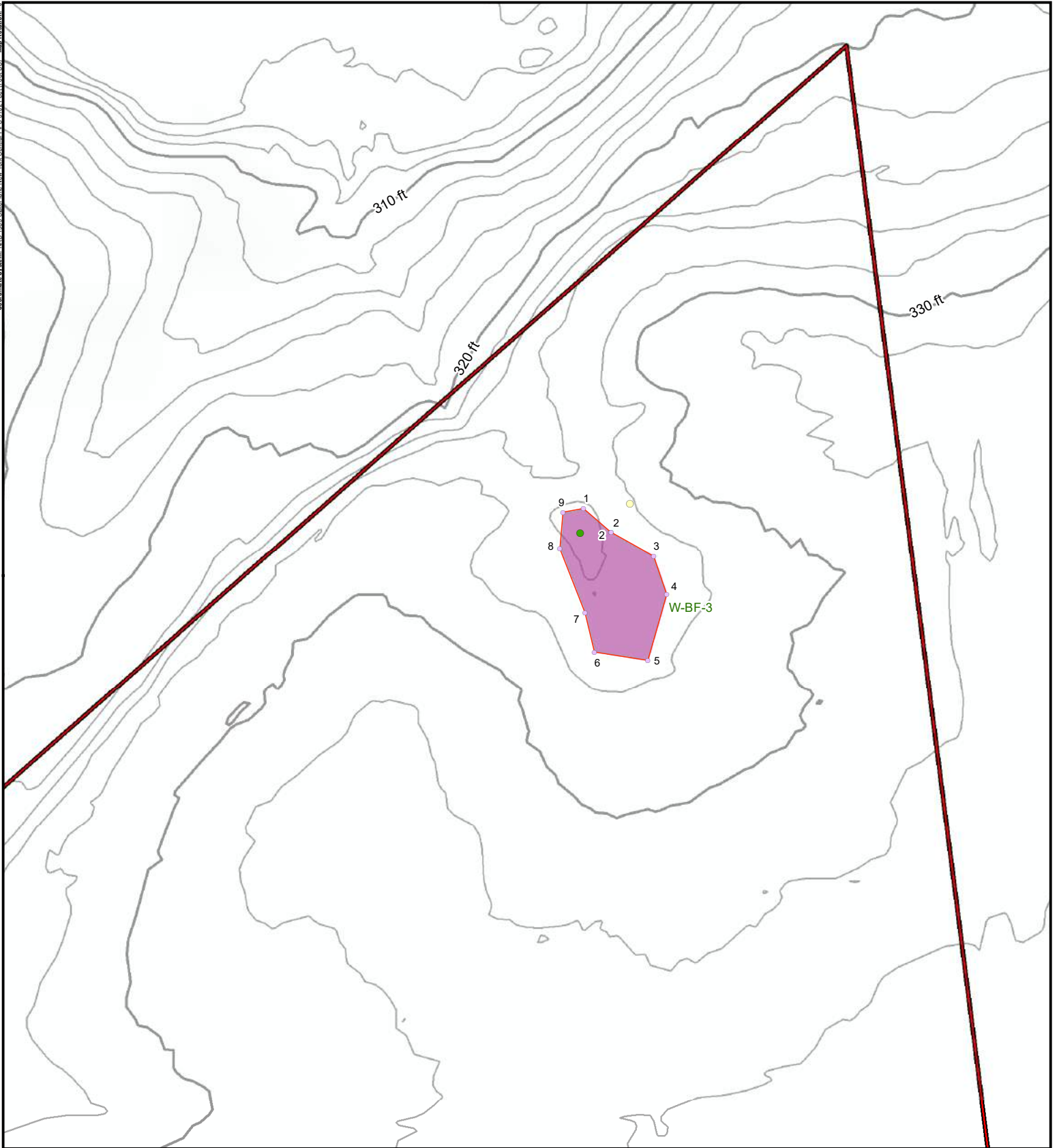
0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	RIVERSIDE SOLAR

**FIGURE 5**  
SHEET 60 OF 61





**LEGEND**

PROJECT AREA	DELINEATED WETLAND (TRC)
WETLAND PLOT	NON-JURISDICTIONAL
UPLAND PLOT	DELINEATED WETLAND BOUNDARY LINE
DELINEATED WETLAND FLAG	

1. BASEMAP IMAGERY FROM ESRI  
 2. TERRAIN MAP SERVICE AND NYSGIS 10-FOOT CONTOURS.  
 3. ALL RESOURCES SHOWN AS DELINEATED BY TRC.

1:1,200 1" = 100'

0 25 50 Feet

N

PROJECT: RIVERSIDE SOLAR LLC TOWNS OF LYME & BROWNVILLE JEFFERSON COUNTY, NY	
TITLE: <b>DELINEATED RESOURCES BY PRESUMED JURISDICTIONAL STATUS</b>	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. SPRING	<b>FIGURE 5</b> SHEET 61 OF 61
APPROVED BY: S. KRANES	
DATE: MARCH 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

## **APPENDIX B**

### **Photograph Log**





*1. Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-1, facing northeast.  
Photograph taken June 1, 2020.*



*2. Overview of the Palustrine emergent (PEM), cover type portion of wetland W-NSD-1, facing north.  
Photograph taken June 1, 2020.*





*3. Overview of the Palustrine forested (PFO) cover type portion of wetland W-NSD-1, facing southwest.  
Photograph taken June 1, 2020.*



*4. Overview of the Palustrine unconsolidated (PUB) cover type portion of wetland W-NSD-1., facing east.  
Photograph taken June 1, 2020.*





**5.** Overview of the of the Palustrine scrub/shrub (PSS) cover type portion of wetland W-JJB-1, facing north.

*Photograph taken June 1, 2020.*



**6.** Overview of the of the Palustrine scrub/shrub (PSS) cover type portion of wetland W-JJB-2, facing north.

*Photograph taken June 1, 2020.*





*7. Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-2, facing northwest.  
Photograph taken June 1, 2020.*



*8. Overview of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-2, facing southeast.  
Photograph taken June 2, 2020.*





**9.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-3, facing west.  
*Photograph taken June 1, 2020.*



**10.** Overview of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-3, facing east.  
*Photograph taken June 2, 2020.*





**11.** Overview of the Palustrine forest (PFO) portion of wetland W-NSD-3, facing south.  
*Photograph taken June 2, 2020.*



**12.** Overview of the Palustrine emergent (PEM) cover type portion of wetland W-BF-4, facing west.  
*Photograph taken June 2, 2020.*





**13.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-4, facing northwest.

*Photograph taken June 2, 2020.*



**14.** View of the Palustrine scrub/shrub (PSS) portion of wetland W-BF-5, facing southeast.

*Photograph taken June 4, 2020.*





**15.** View of the Palustrine forested (PFO) portions of wetland W-BF-5, facing southeast.

*Photograph taken June 4, 2020.*



**16.** View of the Palustrine scrub/shrub (PSS) and Palustrine unconsolidated (PUB) portions of wetland W-BTF-5, facing southeast.

*Photograph taken June 4, 2020.*





**17.** *View of the Palustrine unconsolidated (PUB) portions of wetland W-BF-5, facing east.  
Photograph taken June 4, 2020.*



**18.** *View of the Palustrine scrub/shrub (PSS) portions of wetland W-NSD-5,  
Photograph taken June 2, 2020.*





**19.** *View of the Palustrine emergent (PEM) portions of wetland W-NSD-5, facing southeast.  
Photograph taken June 2, 2020.*



**20.** *View of the Palustrine scrub/shrub (PSS) portion of wetland W-BF-6, facing northwest.  
Photograph taken June 3, 2020.*





*21. View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-6, facing north.  
Photograph taken June 3, 2020.*



*22. View of the Palustrine emergent (PEM) portion of wetland W-BF-7, facing east.  
Photograph taken June 3, 2020.*





**23.** *View of the Palustrine unconsolidated (PUB) portion of wetland W-BF-7, facing east.  
Photograph taken June 4, 2020.*



**24.** *View of the Palustrine scrub/shrub (PSS) portion of wetland W-NSD-7, facing northwest.  
Photograph taken June 3, 2020.*





**25.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-7, facing northwest.  
Photograph taken June 3, 2020.*



**26.** *View of the Palustrine emergent (PEM) portion of wetland W-BF-8, facing northwest.  
Photograph taken June 4, 2020.*





**27.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-8, facing northeast.  
Photograph taken June 4, 2020.*



**28.** *View of the Palustrine emergent (PEM) portion of wetland W-BF-9, facing south.  
Photograph taken June 4, 2020.*





**28.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-9, facing southwest.  
Photograph taken June 4, 2020.*



**29.** *View of the Palustrine emergent (PEM) portion of wetland W-BF-10, facing west.  
Photograph taken June 4, 2020.*





**30.** View of the *Palustrine emergent (PEM)* portion of wetland W-NSD-10, facing northwest.

*Photograph taken June 4, 2020.*



**31.** View of the *Palustrine Forested (PFO)* portion of wetland W-NSD-11, facing northeast.

*Photograph taken June 4, 2020.*





**32.** *View of the Palustrine emergent (PEM) portion of wetland W-BF-11, facing southwest.*

*Photograph taken June 5, 2020.*



**33.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-11, facing northwest.*

*Photograph taken June 4, 2020.*





**34.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-12, facing southwest.  
Photograph taken June 4, 2020.*



**35.** *View of the Palustrine emergent (PEM) portion of wetland W-NSD-13, facing northeast.  
Photograph taken June 5, 2020.*





*36. View of intermittent stream S-BF-1, facing northwest.  
Photograph taken June 3, 2020.*



*36. View of perennial stream S-NSD-1, facing southeast.  
Photograph taken June 1, 2020.*





*37. View of the Perennial stream S-BF-2, facing southeast.  
Photograph taken June 1, 2020.*



*38. View of ephemeral stream S-NSD-2, facing south.  
Photograph taken June 2, 2020.*





*39. View of intermittent stream S-NSD-3, facing north.  
Photograph taken June 2, 2020.*



*40. View of ephemeral stream S-NSD-4, facing northeast.  
Photograph taken June 4, 2020.*





*41. View of intermittent stream S-NSD-5, facing west.*

*Photograph taken June 4, 2020.*



## **APPENDIX C**

### **Data Forms**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-01\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toe Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0823851025 Long: -76.0664535511 Datum: WGS84  
 Soil Map Unit Name: Fu--Fluvaquents-Udifulvents complex, frequently flooded NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-01
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. Circumstances are not normal due to agricultural activities. Cattle grazing.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>7</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (includes capillary fringe)	Depth (inches): <u>6</u>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-01\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 20%;"></th> <th style="width: 30%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>55</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>55</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>50</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>100</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>18</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>72</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>123</u></td> <td>(A)</td> <td style="text-align: center;"><u>227</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: center;">Prevalence Index = B/A = <u>1.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>		<u>Multiply By:</u>	OBL species	<u>55</u>	x 1 =	<u>55</u>	FACW species	<u>50</u>	x 2 =	<u>100</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>18</u>	x 4 =	<u>72</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals	<u>123</u>	(A)	<u>227</u> (B)	Prevalence Index = B/A = <u>1.8</u>			
	<u>Total % Cover of:</u>		<u>Multiply By:</u>																																	
OBL species	<u>55</u>	x 1 =	<u>55</u>																																	
FACW species	<u>50</u>	x 2 =	<u>100</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
FACU species	<u>18</u>	x 4 =	<u>72</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals	<u>123</u>	(A)	<u>227</u> (B)																																	
Prevalence Index = B/A = <u>1.8</u>																																				
1. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW																																	
2. <i>Quercus bicolor</i>	5	Yes	FACW																																	
3. <i>Crataegus monogyna</i>	3	No	FACU																																	
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
	<u>18</u>	= Total Cover																																		
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																																				
1. <i>Crataegus monogyna</i>	15	Yes	FACU																																	
2. <i>Malus sp.</i>	5	Yes	NI																																	
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
	<u>20</u>	= Total Cover																																		
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																																				
1. <i>Typha angustifolia</i>	55	Yes	OBL																																	
2. <i>Poa palustris</i>	30	Yes	FACW																																	
3. <i>Phalaris arundinacea</i>	5	No	FACW																																	
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
11. _____																																				
12. _____																																				
	<u>90</u>	= Total Cover																																		
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																																				
1. _____	0																																			
2. _____																																				
3. _____																																				
4. _____																																				
	<u>0</u>	= Total Cover																																		
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
Remarks: (Include photo numbers here or on a separate sheet.)          																																				





Hydrology Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-01\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0824106808 Long: -76.0661774631 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-01 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="width:25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width:25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>27</u></td> <td>x 3 = <u>81</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>140</u></td> <td>x 4 = <u>560</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>12</u></td> <td>x 5 = <u>60</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>184</u></td> <td>(A) <u>711</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>5</u>	x 2 = <u>10</u>	FAC species	<u>27</u>	x 3 = <u>81</u>	FACU species	<u>140</u>	x 4 = <u>560</u>	UPL species	<u>12</u>	x 5 = <u>60</u>	Column Totals	<u>184</u>	(A) <u>711</u> (B)	Prevalence Index = B/A = <u>3.9</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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Column Totals	<u>184</u>	(A) <u>711</u> (B)																										
Prevalence Index = B/A = <u>3.9</u>																												
1. <i>Acer saccharum</i>	20	Yes	FACU																									
2. <i>Fraxinus pennsylvanica</i>	5	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
25 = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. <i>Zanthoxylum americanum</i>	60	Yes	FACU																									
2. <i>Lonicera japonica</i>	20	Yes	FACU																									
3. <i>Juniperus horizontalis</i>	15	No	FACU																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
95 = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Plantago lanceolata</i>	25	Yes	FACU																									
2. <i>Euonymus americanus</i>	15	Yes	FAC																									
3. <i>Ranunculus acris</i>	12	No	FAC																									
4. <i>Daucus carota</i>	12	No	UPL																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
64 = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
0 = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												

SOIL

Sampling Point: W-BTF-01\_UPL-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 9	10YR 5/6	100					Silt Loam	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b>		Hydric Soil Present?	Yes ___ No <input checked="" type="checkbox"/>
Type:	Bedrock		
Depth (inches):	9		

Remarks:



Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-02\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0811021588 Long: -76.0683043914 Datum: WGS84  
 Soil Map Unit Name: Gv-Guffin clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-02
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. Circumstances are not normal due to agricultural activities. Cattle grazing .			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>12</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-02\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">x 1 = <u>90</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>12</u></td> <td style="text-align: center;">x 2 = <u>24</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>102</u></td> <td style="text-align: center;">(A) <u>114</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.1</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>90</u>	x 1 = <u>90</u>	FACW species	<u>12</u>	x 2 = <u>24</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>102</u>	(A) <u>114</u> (B)	Prevalence Index = B/A = <u>1.1</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>90</u>	x 1 = <u>90</u>																										
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Column Totals	<u>102</u>	(A) <u>114</u> (B)																										
Prevalence Index = B/A = <u>1.1</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Scirpus atrovirens</i>	70	Yes	OBL																									
2. <i>Carex vulpinoidea</i>	15	No	OBL																									
3. <i>Poa palustris</i>	12	No	FACW																									
4. <i>Juncus effusus</i>	5	No	OBL																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	102 = Total Cover																											
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											

**Hydrophytic Vegetation Indicators:**  
 1- Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤ 3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes  No

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



Vegetation Photos



Soil Photos





Photo of Sample Plot North



Photo of Sample Plot South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-02\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0809790601 Long: -76.0684762938 Datum: WGS84  
 Soil Map Unit Name: WnB--Wilpoint silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to agricultural activities. Cattle grazing.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
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<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-02\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>8</u></td> <td style="text-align: center;">x 3 = <u>24</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>77</u></td> <td style="text-align: center;">x 4 = <u>308</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">(A) <u>357</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>8</u>	x 3 = <u>24</u>	FACU species	<u>77</u>	x 4 = <u>308</u>	UPL species	<u>5</u>	x 5 = <u>25</u>	Column Totals	<u>90</u>	(A) <u>357</u> (B)	Prevalence Index = B/A = <u>4</u>		
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FACU species	<u>77</u>	x 4 = <u>308</u>																										
UPL species	<u>5</u>	x 5 = <u>25</u>																										
Column Totals	<u>90</u>	(A) <u>357</u> (B)																										
Prevalence Index = B/A = <u>4</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Festuca rubra</i>	45	Yes	FACU																									
2. <i>Trifolium repens</i>	15	Yes	FACU																									
3. <i>Taraxacum officinale</i>	12	No	FACU																									
4. <i>Ranunculus acris</i>	8	No	FAC																									
5. <i>Phleum pratense</i>	5	No	FACU																									
6. <i>Daucus carota</i>	5	No	UPL																									
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	90 = Total Cover																											
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



SOIL

Sampling Point: W-BTF-02\_UPL-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 8	10YR 3/6	100					Clay Loam	
8 - 20	10YR 4/2	98	10YR 7/3	2	C	M	Silty Clay Loam	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

- |   |  |  |
|---|--|--|
| <b>Hydric Soil Indicators:</b>                                |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>          |
| <input type="checkbox"/> Histosol (A1)                        | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)       |
| <input type="checkbox"/> Histic Epipedon (A2)                 | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)       | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)     |
| <input type="checkbox"/> Black Histic (A3)                    | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)             | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                        | <input type="checkbox"/> Dark Surface (S7) (LRR K, L)                |
| <input type="checkbox"/> Stratified Layers (A5)               | <input checked="" type="checkbox"/> Depleted Matrix (F3)                 | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)    | <input type="checkbox"/> Redox Dark Surface (F6)                         | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)           |
| <input type="checkbox"/> Thick Dark Surface (A12)             | <input type="checkbox"/> Depleted Dark Surface (F7)                      | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)   |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)             | <input type="checkbox"/> Redox Depressions (F8)                          | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)             |  | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   |
| <input type="checkbox"/> Sandy Redox (S5)                     |  | <input type="checkbox"/> Red Parent Material (F21)                   |
| <input type="checkbox"/> Stripped Matrix (S6)                 |  | <input type="checkbox"/> Very Shallow Dark Surface (TF12)            |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) |  | <input type="checkbox"/> Other (Explain in Remarks)                  |

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

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type:	None		
Depth (inches):			

Remarks:

Soil Photos



Photo of Sample Plot South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-03\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0811296519 Long: -76.0667924566 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-03
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. Circumstances are not normal due to agricultural activities. Cattle grazing.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		
Hydrology appears to drain into exposed bedrock fissures on the northern side of the resource..		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-03\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 30%; text-align: center;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>45</u></td> <td></td> <td style="text-align: center;">x 1 = <u>45</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>30</u></td> <td></td> <td style="text-align: center;">x 2 = <u>60</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">(A)</td> <td style="text-align: center;"><u>120</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>1.5</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:	OBL species	<u>45</u>		x 1 = <u>45</u>	FACW species	<u>30</u>		x 2 = <u>60</u>	FAC species	<u>5</u>		x 3 = <u>15</u>	FACU species	<u>0</u>		x 4 = <u>0</u>	UPL species	<u>0</u>		x 5 = <u>0</u>	Column Totals	<u>80</u>	(A)	<u>120</u> (B)	Prevalence Index = B/A =			<u>1.5</u>
	Total % Cover of:		Multiply By:																																	
OBL species	<u>45</u>		x 1 = <u>45</u>																																	
FACW species	<u>30</u>		x 2 = <u>60</u>																																	
FAC species	<u>5</u>		x 3 = <u>15</u>																																	
FACU species	<u>0</u>		x 4 = <u>0</u>																																	
UPL species	<u>0</u>		x 5 = <u>0</u>																																	
Column Totals	<u>80</u>	(A)	<u>120</u> (B)																																	
Prevalence Index = B/A =			<u>1.5</u>																																	
1. _____	0																																			
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
	0	= Total Cover																																		
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																																				
1. <i>Spiraea alba</i>	15	Yes	FACW																																	
2. <i>Frangula alnus</i>	5	Yes	FAC																																	
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
	20	= Total Cover																																		
<b>Herb Stratum (Plot size: 5 ft )</b>																																				
1. <i>Carex vulpinoidea</i>	45	Yes	OBL																																	
2. <i>Poa palustris</i>	15	Yes	FACW																																	
3. <i>Carex sp.</i>	15	Yes	NI																																	
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
11. _____																																				
12. _____																																				
	75	= Total Cover																																		
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																																				
1. _____	0																																			
2. _____																																				
3. _____																																				
4. _____																																				
	0	= Total Cover																																		
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
Remarks: (Include photo numbers here or on a separate sheet.)																																				

SOIL

Sampling Point: W-BTF-03\_PEM-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 8	10YR 3/2	95	10YR 4/4	5	C	M/PL	Silty Clay Loam	
8 - 20	10YR 3/2	80	10YR 4/4	20	C	M	Clay	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type:	None _____	Yes <input checked="" type="checkbox"/>	No _____
Depth (inches):			

Remarks:



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-03\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0811773245 Long: -76.0666355465 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to agricultural activities. Cattle grazing .			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-03 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 3 = <u>45</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>98</u></td> <td style="text-align: center;">x 4 = <u>392</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>113</u></td> <td style="text-align: center;">(A) <u>437</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>15</u>	x 3 = <u>45</u>	FACU species	<u>98</u>	x 4 = <u>392</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>113</u>	(A) <u>437</u> (B)	Prevalence Index = B/A = <u>3.9</u>		
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OBL species	<u>0</u>	x 1 = <u>0</u>																										
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Column Totals	<u>113</u>	(A) <u>437</u> (B)																										
Prevalence Index = B/A = <u>3.9</u>																												
1. <i>Rhamnus cathartica</i>	15	Yes	FAC																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>15</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phleum pratense</i>	35	Yes	FACU																									
2. <i>Vicia americana</i>	28	Yes	FACU																									
3. <i>Trifolium repens</i>	20	Yes	FACU																									
4. <i>Taraxacum officinale</i>	10	No	FACU																									
5. <i>Plantago major</i>	5	No	FACU																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>98</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												

SOIL

Sampling Point: W-BTF-03\_UPL-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 18	10YR 3/6	100					Silty Clay Loam	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

<b>Hydric Soil Indicators:</b>	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	<input type="checkbox"/> Red Parent Material (F21)
	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
	<input type="checkbox"/> Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	Yes ___ No <input checked="" type="checkbox"/>
Type:	Gravel		
Depth (inches):	18		

Remarks:

Soil Photos



Photo of Sample Plot South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-04\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.077105508 Long: -76.0694414864 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>W-BTF-04</u>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remarks: (Explain alternative procedures here or in a separate report)	
Covertypes is PEM. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-04 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>97</u></td> <td style="text-align: center;">x 2 = <u>194</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 4 = <u>40</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>107</u></td> <td style="text-align: center;">(A) <u>234</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>97</u>	x 2 = <u>194</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>10</u>	x 4 = <u>40</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>107</u>	(A) <u>234</u> (B)	Prevalence Index = B/A = <u>2.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>97</u>	x 2 = <u>194</u>																										
FAC species	<u>0</u>	x 3 = <u>0</u>																										
FACU species	<u>10</u>	x 4 = <u>40</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>107</u>	(A) <u>234</u> (B)																										
Prevalence Index = B/A = <u>2.2</u>																												
1. <i>Quercus bicolor</i>	10	Yes	FACW																									
2. <i>Ulmus americana</i>	2	No	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>12</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>0</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	70	Yes	FACW																									
2. <i>Poa palustris</i>	15	No	FACW																									
3. <i>Poa pratensis</i>	10	No	FACU																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>95</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												



SOIL

Sampling Point: W-BTF-04\_PEM-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 5	10YR 3/1	90	10YR 4/6	10	C	M/PL	Silty Clay	
5 - 13	10YR 3/1	80	10YR 5/8	20	C	M	Silty Clay	
13 - 20	10YR 3/1	70	10YR 5/8	30	C	M	Clay	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type:	None	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Depth (inches):			

Remarks:

Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-04\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0771057436 Long: -76.0694322723 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-04 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B) <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;"><u>Total % Cover of:</u></th> <th style="width: 25%;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>83</u></td> <td>x 4 = <u>332</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>88</u></td> <td>(A) <u>357</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>4.1</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>83</u>	x 4 = <u>332</u>	UPL species	<u>5</u>	x 5 = <u>25</u>	Column Totals	<u>88</u>	(A) <u>357</u> (B)	Prevalence Index = B/A = <u>4.1</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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UPL species	<u>5</u>	x 5 = <u>25</u>																										
Column Totals	<u>88</u>	(A) <u>357</u> (B)																										
Prevalence Index = B/A = <u>4.1</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																												
1. <i>Trifolium repens</i>	35	Yes	FACU																									
2. <i>Lotus corniculatus</i>	25	Yes	FACU																									
3. <i>Phleum pratense</i>	15	No	FACU																									
4. <i>Taraxacum officinale</i>	8	No	FACU																									
5. <i>Asclepias syriaca</i>	5	No	UPL																									
6. _____																												
7. _____																												
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9. _____																												
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11. _____																												
12. _____																												
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1. _____	0																											
2. _____																												
3. _____																												
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<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												

SOIL

Sampling Point: W-BTF-04 UPL-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 - 12	10YR 4/2	98	10YR 5/4	2	C	M	Silty Clay Loam	
12 - 20	10YR 5/2	95	10YR 5/3	5	C	M	Clay	

<sup>1</sup>Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup>Location: PL = Pore Lining, M = Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type: _____	None _____	Yes _____	No <input checked="" type="checkbox"/>
Depth (inches): _____			

Remarks:



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0758304759 Long: -76.0639081793 Datum: WGS84  
 Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. Circumstances are not normal due to agricultural activities.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>16</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (includes capillary fringe)	Depth (inches): <u>14</u>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">x 1 = <u>80</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 2 = <u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;"><u>(A) 90 (B)</u></td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.1</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>80</u>	x 1 = <u>80</u>	FACW species	<u>5</u>	x 2 = <u>10</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>85</u>	<u>(A) 90 (B)</u>	Prevalence Index = B/A = <u>1.1</u>		
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Prevalence Index = B/A = <u>1.1</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Carex lacustris</i>	40	Yes	OBL																									
2. <i>Carex stricta</i>	35	Yes	OBL																									
3. <i>Phalaris arundinacea</i>	5	No	FACW																									
4. <i>Salix nigra</i>	5	No	OBL																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	85 = Total Cover																											
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											

**Hydrophytic Vegetation Indicators:**  
 1- Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤ 3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes  No

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



Hydrology Photos



Soil Photos





Photo of Sample Plot  
East



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PEM-2  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0701305422 Long: -76.0785513862 Datum: WGS84  
 Soil Map Unit Name: Cp-Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_  
 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 <input checked="" type="checkbox"/> No ____		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-BTF-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
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<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____
Water Table Present? Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>16</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No ____ (includes capillary fringe)	Depth (inches): <u>7</u>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 PEM-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 1 = <u>5</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;">x 2 = <u>200</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>110</u></td> <td style="text-align: center;">(A) <u>220</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>5</u>	x 1 = <u>5</u>	FACW species	<u>100</u>	x 2 = <u>200</u>	FAC species	<u>5</u>	x 3 = <u>15</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>110</u>	(A) <u>220</u> (B)	Prevalence Index = B/A = <u>2</u>		
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Column Totals	<u>110</u>	(A) <u>220</u> (B)																										
Prevalence Index = B/A = <u>2</u>																												
1. <i>Quercus bicolor</i>	15	Yes	FACW																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
15 = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. <i>Viburnum nudum var. cassinoides</i>	5	Yes	FACW																									
2. <i>Cornus racemosa</i>	5	Yes	FAC																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
10 = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Onoclea sensibilis</i>	30	Yes	FACW																									
2. <i>Impatiens capensis</i>	30	Yes	FACW																									
3. <i>Phalaris arundinacea</i>	15	No	FACW																									
4. <i>Carex crinita</i>	5	No	OBL																									
5. <i>Equisetum pratense</i>	5	No	FACW																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
85 = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PEM-3  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0688040119 Long: -76.0721097931 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_ No   
 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 <input checked="" type="checkbox"/> No ____	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID: W-BTF-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>		
Covertypes is PEM. ATV/ORV impacts observed. Circumstances are not normal due to agricultural activities.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____
Water Table Present? Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>12</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>10</u>	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-3

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>45</u></td> <td style="text-align: center;">x 1 = <u>45</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>60</u></td> <td style="text-align: center;">x 2 = <u>120</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>12</u></td> <td style="text-align: center;">x 3 = <u>36</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>117</u></td> <td style="text-align: center;">(A) <u>201</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.7</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>45</u>	x 1 = <u>45</u>	FACW species	<u>60</u>	x 2 = <u>120</u>	FAC species	<u>12</u>	x 3 = <u>36</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>117</u>	(A) <u>201</u> (B)	Prevalence Index = B/A = <u>1.7</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>45</u>	x 1 = <u>45</u>																										
FACW species	<u>60</u>	x 2 = <u>120</u>																										
FAC species	<u>12</u>	x 3 = <u>36</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>117</u>	(A) <u>201</u> (B)																										
Prevalence Index = B/A = <u>1.7</u>																												
1. <i>Ulmus americana</i>	10	Yes	FACW																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
10 = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. <i>Cornus racemosa</i>	8	Yes	FAC																									
2. <i>Viburnum lentago</i>	4	Yes	FAC																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
12 = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Typha angustifolia</i>	45	Yes	OBL																									
2. <i>Phalaris arundinacea</i>	20	Yes	FACW																									
3. <i>Onoclea sensibilis</i>	15	No	FACW																									
4. <i>Anemone canadensis</i>	10	No	FACW																									
5. <i>Equisetum palustre</i>	5	No	FACW																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
95 = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Dec-17  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PEM-4  
 Investigator(s): Ryan Snow, Kevin Bliss Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0697280598 Long: -76.0744737542 Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: (Explain alternative procedures here or in a separate report)		If yes, optional Wetland Site ID: <u>W-BTF-05</u>	
Covertypes is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>10</u>
Saturation Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>
(includes capillary fringe)	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
_____ _____ _____	
<b>Remarks:</b>	
_____ _____ _____	



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-4

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>				
1. <i>Cornus racemosa</i>	30	Yes	FAC	
2. <i>Quercus macrocarpa</i>	15	Yes	FACU	
3. <i>Viburnum lentago</i>	10	No	FAC	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
55 = Total Cover				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>				
1. <i>Phalaris arundinacea</i>	50	Yes	FACW	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
50 = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 = Total Cover				
<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___				
Remarks: (Include photo numbers here or on a separate sheet.)				



Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Dec-17  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PEM-5  
 Investigator(s): Ryan Snow , Kevin Bliss Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0722055563 Long: -76.0729134612 Datum: WGS84  
 Soil Map Unit Name: Covington Silty Clay, Cp NWI classification: PEM

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures here or in a separate report)			
Covertypes is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):      _____
Saturation Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
(includes capillary fringe)	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	
Saturation assumed, ground frozen.	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PEM-5

	Absolute % Cover	Dominant Species?	Indicator Status																																									
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) <hr/> <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 1 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>100</u></td> <td></td> <td style="text-align: center;">x 2 =</td> <td style="text-align: center;"><u>200</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 3 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>100</u></td> <td></td> <td style="text-align: center;">(A)</td> <td style="text-align: center;"><u>200</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>2</u></td> </tr> </tbody> </table> <hr/> <b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic <hr/> <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height. <hr/> Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Total % Cover of:		Multiply By:		OBL species	<u>0</u>		x 1 =	<u>0</u>	FACW species	<u>100</u>		x 2 =	<u>200</u>	FAC species	<u>0</u>		x 3 =	<u>0</u>	FACU species	<u>0</u>		x 4 =	<u>0</u>	UPL species	<u>0</u>		x 5 =	<u>0</u>	Column Totals	<u>100</u>		(A)	<u>200</u> (B)	Prevalence Index = B/A =				<u>2</u>
	Total % Cover of:		Multiply By:																																									
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1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
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1. _____	_____	_____	_____																																									
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3. _____	_____	_____	_____																																									
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	<u>0</u>	= Total Cover																																										
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																																												
1. <i>Phalaris arundinacea</i>	100	Yes	FACW																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
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10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>100</u>	= Total Cover																																										
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												





Vegetation Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PFO-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0764304738 Long: -76.0654211957 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PFO. ATV/ORV impacts observed. Ditches/drain tiles observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>12</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>9</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PFO-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="width:25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width:25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>35</u></td> <td style="text-align: center;">x 1 = <u>35</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>135</u></td> <td style="text-align: center;">x 2 = <u>270</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 3 = <u>60</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 4 = <u>20</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>195</u> (A)</td> <td style="text-align: center;"><u>385</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>35</u>	x 1 = <u>35</u>	FACW species	<u>135</u>	x 2 = <u>270</u>	FAC species	<u>20</u>	x 3 = <u>60</u>	FACU species	<u>5</u>	x 4 = <u>20</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>195</u> (A)	<u>385</u> (B)	Prevalence Index = B/A = <u>2</u>		
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Column Totals	<u>195</u> (A)	<u>385</u> (B)																										
Prevalence Index = B/A = <u>2</u>																												
1. <i>Picea mariana</i>	40	Yes	FACW																									
2. <i>Quercus bicolor</i>	20	Yes	FACW																									
3. <i>Ulmus americana</i>	15	Yes	FACW																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>75</u> = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Spiraea tomentosa</i>	25	Yes	FACW																									
2. <i>Viburnum recognitum</i>	10	Yes	FAC																									
3. <i>Viburnum recognitum</i>	10	Yes	FAC																									
4. <i>Lonicera japonica</i>	5	No	FACU																									
5. _____																												
6. _____																												
7. _____																												
	<u>50</u> = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Onoclea sensibilis</i>	30	Yes	FACW																									
2. <i>Carex stricta</i>	25	Yes	OBL																									
3. <i>Carex lacustris</i>	10	No	OBL																									
4. <i>Phalaris arundinacea</i>	5	No	FACW																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>70</u> = Total Cover																											
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
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<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
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Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Hydrology Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PFO-2  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0734297652 Long: -76.0680517754 Datum: WGS84  
 Soil Map Unit Name: KgB--Kingsbury silty clay, 2 to 6 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PFO. Ditches/drain tiles observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
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<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_PFO-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;">x 2 = <u>200</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>25</u></td> <td style="text-align: center;">x 3 = <u>75</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>125</u></td> <td style="text-align: center;">(A) <u>275</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>100</u>	x 2 = <u>200</u>	FAC species	<u>25</u>	x 3 = <u>75</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>125</u>	(A) <u>275</u> (B)	Prevalence Index = B/A = <u>2.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
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Column Totals	<u>125</u>	(A) <u>275</u> (B)																										
Prevalence Index = B/A = <u>2.2</u>																												
1. <i>Picea mariana</i>	45	Yes	FACW																									
2. <i>Ulmus americana</i>	40	Yes	FACW																									
3. <i>Crataegus douglasii</i>	5	No	FAC																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>90</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Cornus racemosa</i>	20	Yes	FAC																									
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>20</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Lycopodiella subappressa</i>	10	Yes	FACW																									
2. <i>Quercus bicolor</i>	5	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
<u>15</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
<u>0</u> = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Soil Photos



Photo of Sample Plot West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02

Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PSS-1

Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1

Subregion (LRR or MLRA): LRR R Lat: 44.0702965925 Long: -76.078521964 Datum: WGS84

Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
Remarks: (Explain alternative procedures here or in a separate report)			
Covertyp is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>35</u></td> <td>x 1 = <u>35</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>165</u></td> <td>(A) <u>320</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>35</u>	x 1 = <u>35</u>	FACW species	<u>105</u>	x 2 = <u>210</u>	FAC species	<u>25</u>	x 3 = <u>75</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>165</u>	(A) <u>320</u> (B)	Prevalence Index = B/A = <u>1.9</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>35</u>	x 1 = <u>35</u>																										
FACW species	<u>105</u>	x 2 = <u>210</u>																										
FAC species	<u>25</u>	x 3 = <u>75</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>165</u>	(A) <u>320</u> (B)																										
Prevalence Index = B/A = <u>1.9</u>																												
1. <i>Ulmus americana</i>	10	Yes	FACW																									
2. <i>Quercus bicolor</i>	5	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>15</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Cornus alba</i>	40	Yes	FACW																									
2. <i>Cornus racemosa</i>	15	Yes	FAC																									
3. <i>Ulmus americana</i>	15	Yes	FACW																									
4. <i>Viburnum lentago</i>	10	No	FAC																									
5. <i>Quercus bicolor</i>	10	No	FACW																									
6. <i>Rhamnus alnifolia</i>	5	No	OBL																									
7. _____																												
<u>95</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Panicum capillare</i>	30	Yes	OBL																									
2. <i>Phalaris arundinacea</i>	25	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
<u>55</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PUB-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pond Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0687328919 Long: -76.0719525916 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>W-BTF-05</u>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remarks: (Explain alternative procedures here or in a separate report)	
Covertypes is PUB. Ditches/drain tiles observed. Circumstances are not normal due to agricultural activities. Pond appears to be man made.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 PUB-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>17</u></td> <td>x 1 = <u>17</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>37</u></td> <td>(A) <u>57</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.5</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>17</u>	x 1 = <u>17</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>37</u>	(A) <u>57</u> (B)	Prevalence Index = B/A = <u>1.5</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>17</u>	x 1 = <u>17</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>37</u>	(A) <u>57</u> (B)																			
Prevalence Index = B/A = <u>1.5</u>																				
1. <i>Ulmus americana</i>	10	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Lemna minor</i>	12	Yes	OBL																	
2. <i>Phalaris arundinacea</i>	10	Yes	FACW																	
3. <i>Typha angustifolia</i>	5	No	OBL																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>27</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				



Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_PUB-2  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pond Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0729944672 Long: -76.0683113494 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-05
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Remarks: (Explain alternative procedures here or in a separate report)</b>	
Covertypes is PUB. ATV/ORV impacts observed. Circumstances are not normal due to mowing of vegetation. Pond appears to be man made.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input checked="" type="checkbox"/> Surface Water (A1)                      ___ Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3)                              ___ Marl Deposits (B15) ___ Water Marks (B1)                        ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  ___ Drift Deposits (B3)                      ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4)                   ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5)                        ___ Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)    ___ Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>5</u>
Water Table Present?                        Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
Saturation Present?                         Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
(includes capillary fringe)	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 PUB-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 1 = <u>15</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">x 2 = <u>160</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>95</u></td> <td style="text-align: center;">(A) <u>175</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>15</u>	x 1 = <u>15</u>	FACW species	<u>80</u>	x 2 = <u>160</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>95</u>	(A) <u>175</u> (B)	Prevalence Index = B/A = <u>1.8</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>15</u>	x 1 = <u>15</u>																										
FACW species	<u>80</u>	x 2 = <u>160</u>																										
FAC species	<u>0</u>	x 3 = <u>0</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>95</u>	(A) <u>175</u> (B)																										
Prevalence Index = B/A = <u>1.8</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	80	Yes	FACW																									
2. <i>Schoenoplectus tabernaemontani</i>	10	No	OBL																									
3. <i>Carex crinita</i>	5	No	OBL																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	95 = Total Cover																											
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Soil Photos



Photo of Sample Plot South





Photo of Sample Plot  
West







VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b>	
1. _____	0	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
5. _____	_____	_____	_____	<b>Total % Cover of:</b>	<b>Multiply By:</b>
6. _____	_____	_____	_____	OBL species	0 x 1 = 0
7. _____	_____	_____	_____	FACW species	0 x 2 = 0
	0 = Total Cover			FAC species	5 x 3 = 15
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>				FACU species	80 x 4 = 320
1. _____	0	_____	_____	UPL species	0 x 5 = 0
2. _____	_____	_____	_____	Column Totals	85 (A) 335 (B)
3. _____	_____	_____	_____	Prevalence Index = B/A = 3.9	
4. _____	_____	_____	_____	<b>Hydrophytic Vegetation Indicators:</b>	
5. _____	_____	_____	_____	___ 1- Rapid Test for Hydrophytic Vegetation	
6. _____	_____	_____	_____	___ 2 - Dominance Test is > 50%	
7. _____	_____	_____	_____	___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
	0 = Total Cover			___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
<b>Herb Stratum (Plot size: 5 ft )</b>				___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. <i>Trifolium repens</i>	30	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Vicia americana</i>	20	Yes	FACU	<b>Definitions of Vegetation Strata:</b>	
3. <i>Trifolium pratense</i>	15	No	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. <i>Phleum pratense</i>	10	No	FACU	<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. <i>Taraxacum officinale</i>	5	No	FACU	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. <i>Ranunculus acris</i>	5	No	FAC	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
7. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes ___ No <input checked="" type="checkbox"/>	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	85 = Total Cover				
<b>Woody Vine Stratum (Plot size: 30 ft )</b>					
1. _____	0	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	0 = Total Cover				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>					





Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02

Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-2

Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2 to 5

Subregion (LRR or MLRA): LRR R Lat: 44.0699555675 Long: -76.0785049654 Datum: WGS84

Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)			
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			
Dry hole..			



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 UPL-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 2 = <u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>142</u></td> <td style="text-align: center;">x 4 = <u>568</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>147</u></td> <td style="text-align: center;">(A) <u>578</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>5</u>	x 2 = <u>10</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>142</u>	x 4 = <u>568</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>147</u>	(A) <u>578</u> (B)	Prevalence Index = B/A = <u>3.9</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>5</u>	x 2 = <u>10</u>																										
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FACU species	<u>142</u>	x 4 = <u>568</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>147</u>	(A) <u>578</u> (B)																										
Prevalence Index = B/A = <u>3.9</u>																												
1. <i>Tilia americana</i>	30	Yes	FACU																									
2. <i>Acer saccharum</i>	25	Yes	FACU																									
3. <i>Carya ovata</i>	15	No	FACU																									
4. <i>Ostrya virginiana</i>	12	No	FACU																									
5. <i>Quercus bicolor</i>	5	No	FACW																									
6. _____																												
7. _____																												
	<u>87</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Acer saccharum</i>	25	Yes	FACU																									
2. <i>Ostrya virginiana</i>	5	No	FACU																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>30</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Podophyllum peltatum</i>	20	Yes	FACU																									
2. <i>Carya ovata</i>	5	No	FACU																									
3. <i>Ostrya virginiana</i>	5	No	FACU																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>30</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1- Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is > 50%  
 \_\_\_ 3 - Prevalence Index is ≤ 3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes \_\_\_ No

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



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-3  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Low Hill Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0686276604 Long: -76.0719409997 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopesovington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>		
Covertypes is UPL. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		
Dry hole.		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 UPL-3

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b>	
1. _____	0			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u>	(A)
2. _____				Total Number of Dominant Species Across All Strata: <u>5</u>	(B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20</u>	(A/B)
4. _____				<b>Prevalence Index worksheet:</b>	
5. _____				<b>Total % Cover of:</b>	<b>Multiply By:</b>
6. _____				OBL species <u>0</u>	x 1 = <u>0</u>
7. _____				FACW species <u>20</u>	x 2 = <u>40</u>
	0	= Total Cover		FAC species <u>0</u>	x 3 = <u>0</u>
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>				FACU species <u>80</u>	x 4 = <u>320</u>
1. _____	0			UPL species <u>0</u>	x 5 = <u>0</u>
2. _____				Column Totals <u>100</u>	(A) <u>360</u> (B)
3. _____				Prevalence Index = B/A = <u>3.6</u>	
4. _____				<b>Hydrophytic Vegetation Indicators:</b>	
5. _____				___ 1- Rapid Test for Hydrophytic Vegetation	
6. _____				___ 2 - Dominance Test is > 50%	
7. _____				___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
	0	= Total Cover		___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
<b>Herb Stratum (Plot size: 5 ft )</b>				___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. <i>Poa pratensis</i>	25	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Phalaris arundinacea</i>	20	Yes	FACW	<b>Definitions of Vegetation Strata:</b>	
3. <i>Vicia americana</i>	15	Yes	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. <i>Taraxacum officinale</i>	15	Yes	FACU	<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. <i>Trifolium repens</i>	15	Yes	FACU	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. <i>Lotus corniculatus</i>	10	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
7. _____				<b>Hydrophytic Vegetation Present?</b> Yes ___ No <input checked="" type="checkbox"/>	
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
	100	= Total Cover			
<b>Woody Vine Stratum (Plot size: 30 ft )</b>					
1. _____					
2. _____					
3. _____					
4. _____					
	0	= Total Cover			
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>					





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-4  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Knob Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0732124215 Long: -76.0681865467 Datum: WGS84  
 Soil Map Unit Name: Kingsbury Silty Clay, 2 to 6 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Remarks: (Explain alternative procedures here or in a separate report)	
Covertypes is UPL. ATV/ORV impacts observed. Circumstances are not normal due to mowing of vegetation.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05 UPL-4

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 2 = <u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>82</u></td> <td style="text-align: center;">x 4 = <u>328</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>92</u></td> <td style="text-align: center;">(A) <u>353</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>5</u>	x 2 = <u>10</u>	FAC species	<u>5</u>	x 3 = <u>15</u>	FACU species	<u>82</u>	x 4 = <u>328</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>92</u>	(A) <u>353</u> (B)	Prevalence Index = B/A = <u>3.8</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>5</u>	x 2 = <u>10</u>																										
FAC species	<u>5</u>	x 3 = <u>15</u>																										
FACU species	<u>82</u>	x 4 = <u>328</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>92</u>	(A) <u>353</u> (B)																										
Prevalence Index = B/A = <u>3.8</u>																												
1. <i>Picea mariana</i>	5	Yes	FACW																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>5</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Viburnum lentago</i>	5	Yes	FAC																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>5</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Trifolium repens</i>	30	Yes	FACU																									
2. <i>Lotus corniculatus</i>	25	Yes	FACU																									
3. <i>Vicia americana</i>	20	Yes	FACU																									
4. <i>Festuca rubra</i>	5	No	FACU																									
5. <i>Taraxacum officinale</i>	2	No	FACU																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>82</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos



Photo of Sample Plot South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Dec-17  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-5  
 Investigator(s): Ryan Snow , Kevin Bliss Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hilltop Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0698039631 Long: -76.0744610464 Datum: WGS84  
 Soil Map Unit Name: VERGENNES silty clay loam, VeB NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?                         Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>16</u>	
Saturation Present?                            Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>13</u> (includes capillary fringe)	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_UPL-5

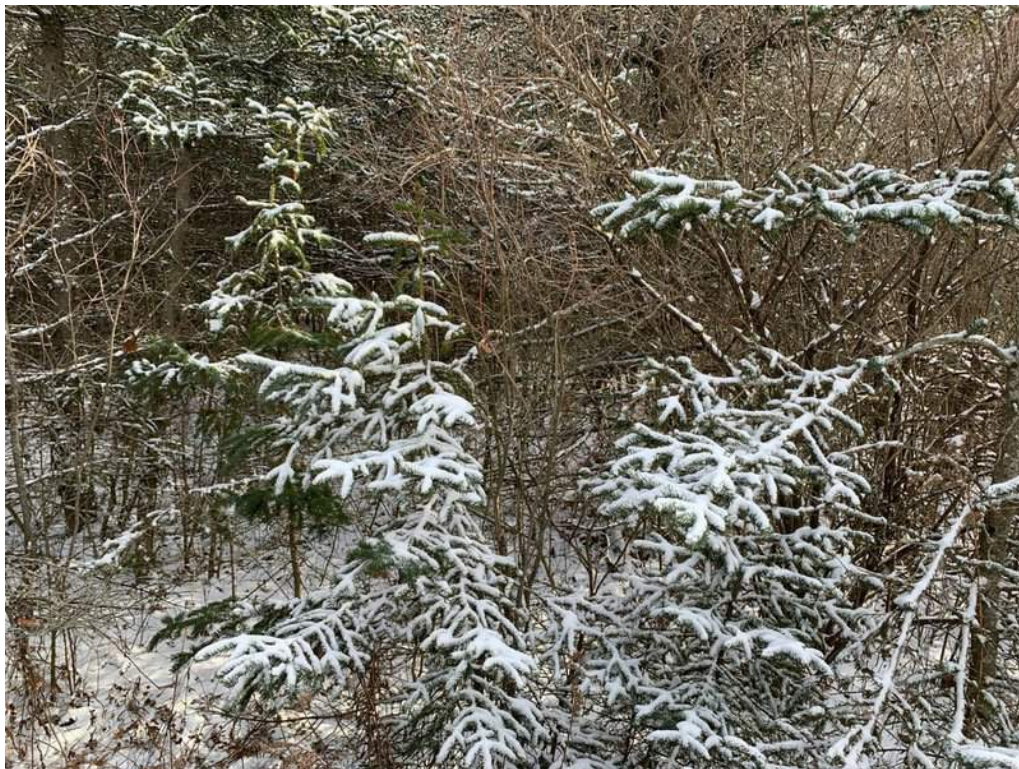
	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)
1. <i>Picea rubens</i>	80	Yes	FACU	
2. <i>Fraxinus americana</i>	5	No	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
			85 = Total Cover	
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>				
1. <i>Cornus racemosa</i>	5	Yes	FAC	
2. <i>Lonicera morrowii</i>	5	Yes	FACU	
3. <i>Prunus pensylvanica</i>	2	No	FACU	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
			12 = Total Cover	
<b>Herb Stratum (Plot size: 5 ft )</b>				
1. <i>Solidago altissima</i>	15	Yes	FACU	
2. <i>Symphotrichum lateriflorum</i>	5	No	FAC	
3. <i>Fragaria vesca</i>	5	No	UPL	
4. <i>Poaceae</i>	2	No	NI	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
			27 = Total Cover	
<b>Woody Vine Stratum (Plot size: 30 ft )</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
			0 = Total Cover	
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          				



Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Dec-17  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-6  
 Investigator(s): Ryan Snow, Kevin Bliss Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0760081965 Long: -76.0664061112 Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?                        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?                          Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>14</u>
(includes capillary fringe)	
<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-05\_UPL-6

	Absolute % Cover	Dominant Species?	Indicator Status																																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																								
1. <i>Picea rubens</i>	90	Yes	FACU																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
90 = Total Cover																																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																																												
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2. <i>Fragaria vesca</i>	6	Yes	UPL																																									
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Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																																												
Remarks: (Include photo numbers here or on a separate sheet.)																																												





Hydrology Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Dec-17  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-05\_UPL-7  
 Investigator(s): Ryan Snow , Kevin Bliss Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0721809363 Long: -76.0728596188 Datum: WGS84  
 Soil Map Unit Name: Covington Silty clay, Cp NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?                         Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?                            Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>14</u>
(includes capillary fringe)	
<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	

VEGETATION -- Use scientific names of plants.

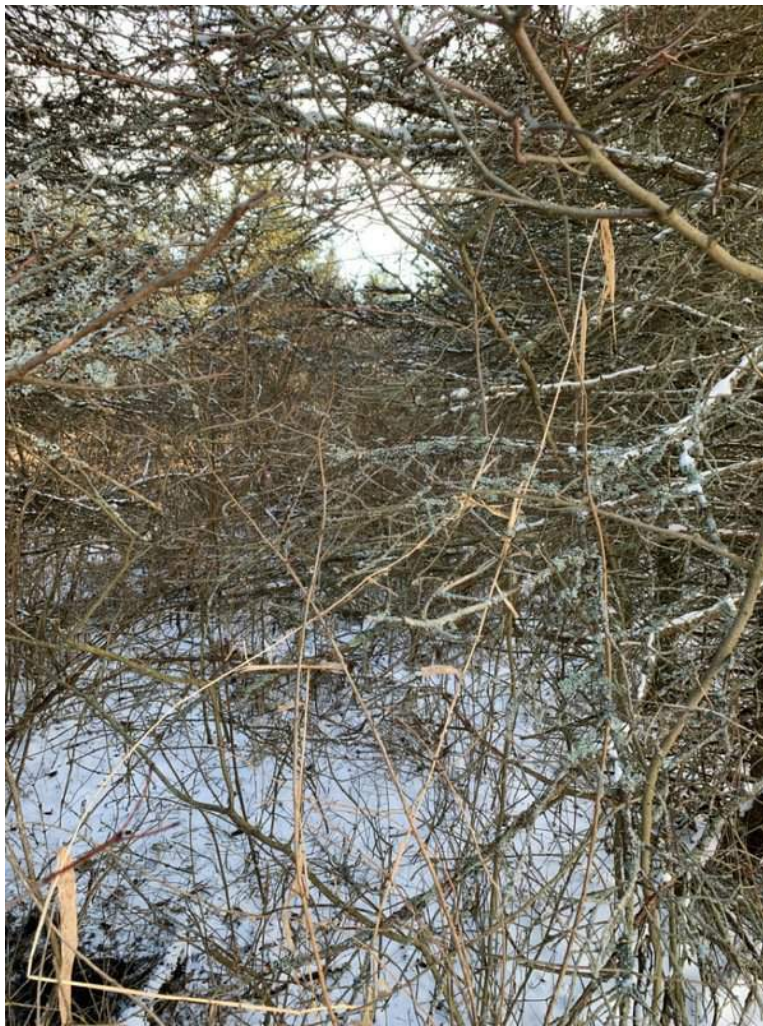
Sampling Point: W-BTF-05\_UPL-7

	Absolute % Cover	Dominant Species?	Indicator Status																																																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																																
1. <i>Picea rubens</i>	90	Yes	FACU																																																	
2. _____	_____	_____	_____																																																	
3. _____	_____	_____	_____																																																	
4. _____	_____	_____	_____																																																	
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Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																																																				





Vegetation Photos



Soil Photos









Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-06\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0682050401 Long: -76.0614165582 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-06
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. ATV/ORV impacts observed. Circumstances are not normal due to agricultural activities.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>18</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-06 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>45</u></td> <td>x 1 = <u>45</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>100</u></td> <td>(A) <u>160</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.6</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>45</u>	x 1 = <u>45</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>100</u>	(A) <u>160</u> (B)	Prevalence Index = B/A = <u>1.6</u>	
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UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>100</u>	(A) <u>160</u> (B)																			
Prevalence Index = B/A = <u>1.6</u>																				
1. <i>Ulmus americana</i>	15	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>15</u> = Total Cover																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. <i>Cornus racemosa</i>	5	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>5</u> = Total Cover																				
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <i>Phalaris arundinacea</i>	35	Yes	FACW																	
2. <i>Carex canescens</i>	15	Yes	OBL																	
3. <i>Glyceria striata</i>	15	Yes	OBL																	
4. <i>Juncus effusus</i>	15	Yes	OBL																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
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12. _____	_____	_____	_____																	
<u>80</u> = Total Cover																				
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Remarks:</b> (Include photo numbers here or on a separate sheet.)																				





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
South





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-06\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Low Hill Local relief (concave, convex, none): None Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.068153227 Long: -76.0617245141 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to mowing of vegetation. Circumstances are not normal due to agricultural activities. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?                         Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?                            Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
(includes capillary fringe)	
<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-06\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b>	
1. _____	0			Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. _____				Total Number of Dominant Species Across All Strata:	2 (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
4. _____				<b>Prevalence Index worksheet:</b>	
5. _____				<b>Total % Cover of:</b>	<b>Multiply By:</b>
6. _____				OBL species	0 x 1 = 0
7. _____				FACW species	0 x 2 = 0
	0	= Total Cover		FAC species	10 x 3 = 30
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )				FACU species	90 x 4 = 360
1. _____	0			UPL species	0 x 5 = 0
2. _____				Column Totals	100 (A) 390 (B)
3. _____				Prevalence Index = B/A = <u>3.9</u>	
4. _____				<b>Hydrophytic Vegetation Indicators:</b>	
5. _____				___ 1- Rapid Test for Hydrophytic Vegetation	
6. _____				___ 2 - Dominance Test is > 50%	
7. _____				___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
	0	= Total Cover		___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )				___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. <i>Poa pratensis</i>	40	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
2. <i>Phleum pratense</i>	25	Yes	FACU	<b>Definitions of Vegetation Strata:</b>	
3. <i>Taraxacum officinale</i>	10	No	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
4. <i>Euonymus americanus</i>	10	No	FAC	<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
5. <i>Trifolium repens</i>	10	No	FACU	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
6. <i>Galium mollugo</i>	5	No	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
7. _____				Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>	
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
	100	= Total Cover			
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )					
1. _____	0				
2. _____					
3. _____					
4. _____					
	0	= Total Cover			
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>					





Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-07\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0698904713 Long: -76.0628322237 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: W-BTF-07
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>		
Covertypes is PEM. Circumstances are not normal due to agricultural activities. Appears to be fallow pastureland. .		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>9</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-07\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">x 1 = <u>90</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 2 = <u>20</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 3 = <u>45</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>115</u></td> <td style="text-align: center;">(A) <u>155</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.3</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>90</u>	x 1 = <u>90</u>	FACW species	<u>10</u>	x 2 = <u>20</u>	FAC species	<u>15</u>	x 3 = <u>45</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>115</u>	(A) <u>155</u> (B)	Prevalence Index = B/A = <u>1.3</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>90</u>	x 1 = <u>90</u>																										
FACW species	<u>10</u>	x 2 = <u>20</u>																										
FAC species	<u>15</u>	x 3 = <u>45</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>115</u>	(A) <u>155</u> (B)																										
Prevalence Index = B/A = <u>1.3</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0	= Total Cover																										
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																												
1. <i>Cornus racemosa</i>	15	Yes	FAC																									
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	15	= Total Cover																										
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																												
1. <i>Calamagrostis canadensis</i>	65	Yes	OBL																									
2. <i>Scirpus microcarpus</i>	20	Yes	OBL																									
3. <i>Phalaris arundinacea</i>	10	No	FACW																									
4. <i>Juncus effusus</i>	5	No	OBL																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	100	= Total Cover																										
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-07\_PUB-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Pond Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.069901234 Long: -76.0624983584 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-07
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remarks: (Explain alternative procedures here or in a separate report)	
Covertypes is PUB. Circumstances are not normal due to agricultural activities. Pond appears to be man made.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>5</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-07 PUB-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:center;"><b>Total % Cover of:</b></td> <td style="text-align:center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>95</u></td> <td>(A) <u>185</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.9</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>95</u>	(A) <u>185</u> (B)	Prevalence Index = B/A = <u>1.9</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>95</u>	(A) <u>185</u> (B)																			
Prevalence Index = B/A = <u>1.9</u>																				
1. <i>Quercus bicolor</i>	10	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Phalaris arundinacea</i>	80	Yes	FACW																	
2. <i>Schoenoplectus tabernaemontani</i>	5	No	OBL																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>85</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-07\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Low Hill Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0700003294 Long: -76.0630366841 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-07 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>115</u></td> <td>x 4 = <u>460</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>150</u></td> <td>(A) <u>565</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </table> <b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>115</u>	x 4 = <u>460</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>150</u>	(A) <u>565</u> (B)	Prevalence Index = B/A = <u>3.8</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>115</u>	x 4 = <u>460</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>150</u>	(A) <u>565</u> (B)																			
Prevalence Index = B/A = <u>3.8</u>																				
1. <i>Quercus rubra</i>	30	Yes	FACU																	
2. <i>Acer saccharum</i>	25	Yes	FACU																	
3. <i>Quercus alba</i>	20	No	FACU																	
4. <i>Carya ovata</i>	10	No	FACU																	
5. <i>Crataegus monogyna</i>	10	No	FACU																	
6. <i>Ostrya virginiana</i>	10	No	FACU																	
7. _____																				
	105	= Total Cover																		
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Rhamnus cathartica</i>	25	Yes	FAC																	
2. <i>Lonicera japonica</i>	5	No	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	30	= Total Cover																		
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Rhamnus cathartica</i>	10	Yes	FAC																	
2. <i>Carya ovata</i>	5	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	15	= Total Cover																		
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
	0	= Total Cover																		
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-08\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0687300311 Long: -76.0624722573 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-08
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. Circumstances are not normal due to agricultural activities. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-08 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><b>Total % Cover of:</b></td> <td style="text-align: center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>65</u></td> <td>x 1 = <u>65</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>85</u></td> <td>(A) <u>105</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.2</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>65</u>	x 1 = <u>65</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>85</u>	(A) <u>105</u> (B)	Prevalence Index = B/A = <u>1.2</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>65</u>	x 1 = <u>65</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>85</u>	(A) <u>105</u> (B)																			
Prevalence Index = B/A = <u>1.2</u>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	0 = Total Cover																			
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	0 = Total Cover																			
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Carex diandra</i>	40	Yes	OBL																	
2. <i>Carex vulpinoidea</i>	20	Yes	OBL																	
3. <i>Phalaris arundinacea</i>	20	Yes	FACW																	
4. <i>Juncus effusus</i>	5	No	OBL																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	85 = Total Cover																			
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
	0 = Total Cover																			
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-08\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0687556552 Long: -76.0624703255 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: W-BTF-08
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>		
Covertypes is UPL. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation.		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-08\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;">x 4 = <u>340</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;">(A) <u>340</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>85</u>	x 4 = <u>340</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>85</u>	(A) <u>340</u> (B)	Prevalence Index = B/A = <u>4</u>		
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Column Totals	<u>85</u>	(A) <u>340</u> (B)																										
Prevalence Index = B/A = <u>4</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Trifolium repens</i>	30	Yes	FACU																									
2. <i>Vicia americana</i>	25	Yes	FACU																									
3. <i>Phleum pratense</i>	15	No	FACU																									
4. <i>Taraxacum officinale</i>	10	No	FACU																									
5. <i>Galium mollugo</i>	5	No	FACU																									
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	85 = Total Cover																											
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1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												





Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West







VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-09\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>65</u></td> <td>x 1 = <u>65</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>140</u></td> <td>(A) <u>215</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.5</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>65</u>	x 1 = <u>65</u>	FACW species	<u>75</u>	x 2 = <u>150</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>140</u>	(A) <u>215</u> (B)	Prevalence Index = B/A = <u>1.5</u>		
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Column Totals	<u>140</u>	(A) <u>215</u> (B)																										
Prevalence Index = B/A = <u>1.5</u>																												
1. <i>Fraxinus pennsylvanica</i>	20	Yes	FACW																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
20 = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Salix nigra</i>	15	Yes	OBL																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
15 = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Typha angustifolia</i>	45	Yes	OBL																									
2. <i>Phalaris arundinacea</i>	40	Yes	FACW																									
3. <i>Anemone canadensis</i>	10	No	FACW																									
4. <i>Impatiens capensis</i>	5	No	FACW																									
5. <i>Scirpus atrovirens</i>	5	No	OBL																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
105 = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
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Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
South







VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-09 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;">x 4 = <u>400</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;"><u>(A) 400 (B)</u></td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>100</u>	x 4 = <u>400</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>100</u>	<u>(A) 400 (B)</u>	Prevalence Index = B/A = <u>4</u>		
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1. _____	0																											
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<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	0																											
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	0 = Total Cover																											
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Vicia americana</i>	50	Yes	FACU																									
2. <i>Phleum pratense</i>	20	Yes	FACU																									
3. <i>Lotus corniculatus</i>	10	No	FACU																									
4. <i>Trifolium repens</i>	5	No	FACU																									
5. <i>Taraxacum officinale</i>	5	No	FACU																									
6. <i>Galium mollugo</i>	5	No	FACU																									
7. <i>Potentilla simplex</i>	5	No	FACU																									
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	100 = Total Cover																											
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											
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<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>     																												



Soil Photos



Photo of Sample Plot North

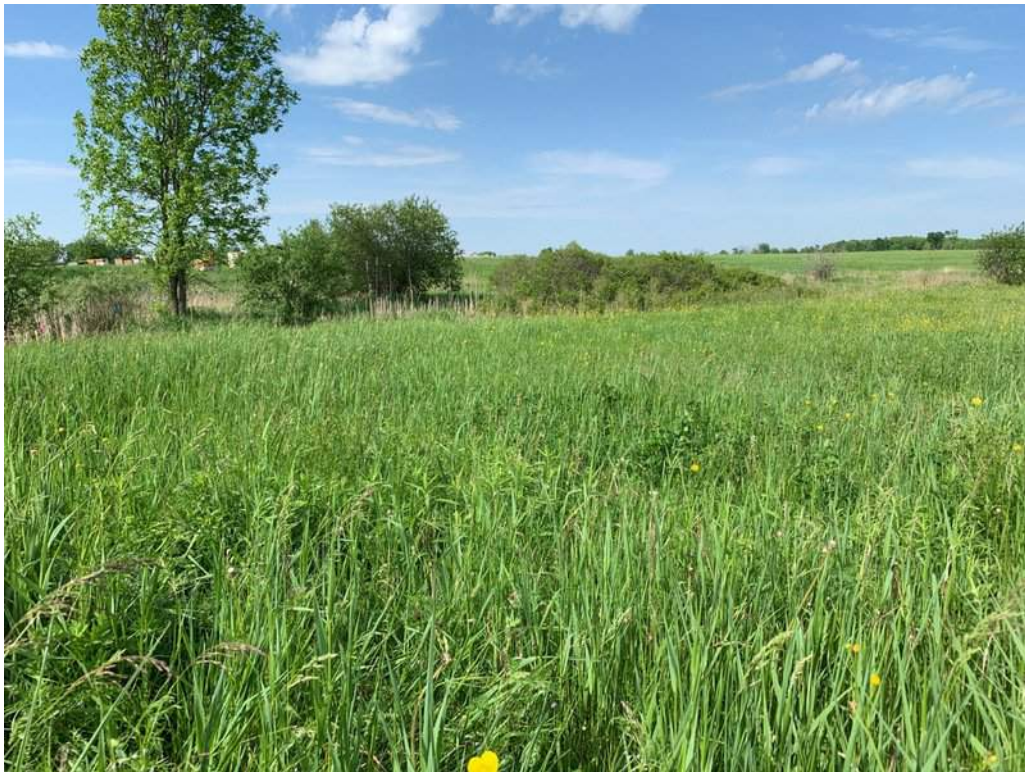




Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-10\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0616233874 Long: -76.0829934109 Datum: WGS84  
 Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>W-BTF-10</u>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remarks: (Explain alternative procedures here or in a separate report)	
Covertypes is PEM. ATV/ORV impacts observed. Ditches/drain tiles observed. Circumstances are not normal due to agricultural activities.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-10\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>90</u></td> <td>x 1 = <u>90</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>110</u></td> <td>(A) <u>135</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.2</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>90</u>	x 1 = <u>90</u>	FACW species <u>15</u>	x 2 = <u>30</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>110</u>	(A) <u>135</u> (B)	Prevalence Index = B/A = <u>1.2</u>	
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1. <i>Ulmus americana</i>	10	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Frangula alnus</i>	5	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>5</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Typha angustifolia</i>	80	Yes	OBL																	
2. <i>Scirpus atrovirens</i>	10	No	OBL																	
3. <i>Anemone canadensis</i>	5	No	FACW																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>95</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	0	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																				
Remarks: (Include photo numbers here or on a separate sheet.)																				





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05

Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-10\_UPL-1

Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 1 to 3

Subregion (LRR or MLRA): LRR R Lat: 44.0616081614 Long: -76.0829710273 Datum: WGS84

Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to mowing of vegetation. Circumstances are not normal due to agricultural activities. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-10 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 3 = <u>45</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;">x 4 = <u>340</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;">(A) <u>385</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </tbody> </table> <b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>15</u>	x 3 = <u>45</u>	FACU species	<u>85</u>	x 4 = <u>340</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>100</u>	(A) <u>385</u> (B)	Prevalence Index = B/A = <u>3.9</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>0</u>	x 2 = <u>0</u>																										
FAC species	<u>15</u>	x 3 = <u>45</u>																										
FACU species	<u>85</u>	x 4 = <u>340</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>100</u>	(A) <u>385</u> (B)																										
Prevalence Index = B/A = <u>3.9</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Trifolium repens</i>	30	Yes	FACU																									
2. <i>Lotus corniculatus</i>	30	Yes	FACU																									
3. <i>Ranunculus acris</i>	15	No	FAC																									
4. <i>Vicia americana</i>	15	No	FACU																									
5. <i>Galium mollugo</i>	10	No	FACU																									
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	100	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0	= Total Cover																										
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
South



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-11\_PEM-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0510992052 Long: -76.1183389176 Datum: WGS84  
 Soil Map Unit Name: CIA--Chaumont silty clay, 0 to 3 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-11
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PEM. ATV/ORV impacts observed. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation. Wetland is part of an active cornfield. .			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-11\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 1 = <u>5</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 2 = <u>40</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 3 = <u>30</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;">x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;">(A) <u>325</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>5</u>	x 1 = <u>5</u>	FACW species	<u>20</u>	x 2 = <u>40</u>	FAC species	<u>10</u>	x 3 = <u>30</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>50</u>	x 5 = <u>250</u>	Column Totals	<u>85</u>	(A) <u>325</u> (B)	Prevalence Index = B/A = <u>3.8</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>5</u>	x 1 = <u>5</u>																										
FACW species	<u>20</u>	x 2 = <u>40</u>																										
FAC species	<u>10</u>	x 3 = <u>30</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>50</u>	x 5 = <u>250</u>																										
Column Totals	<u>85</u>	(A) <u>325</u> (B)																										
Prevalence Index = B/A = <u>3.8</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0 = Total Cover																											
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Zea mays</i>	50	Yes	UPL																									
2. <i>Cyperus esculentus</i>	15	No	FACW																									
3. <i>Barbarea vulgaris</i>	5	No	FAC																									
4. <i>Juncus effusus</i>	5	No	OBL																									
5. <i>Agrostis capillaris</i>	5	No	FAC																									
6. <i>Phalaris arundinacea</i>	5	No	FACW																									
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	85 = Total Cover																											
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	0 = Total Cover																											

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1- Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is > 50%  
 \_\_\_ 3 - Prevalence Index is ≤ 3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes \_\_\_ No

**Remarks: (Include photo numbers here or on a separate sheet.)**  
 Problematic vegetation, presumed hydrophytic under normal circumstances owing to conditions in surrounding similar undisturbed area..



Vegetation Photos





Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-11\_PSS-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0520261145 Long: -76.1187158506 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-11
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-11 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>17</u></td> <td style="text-align: center;">x 1 = <u>17</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">x 2 = <u>160</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>28</u></td> <td style="text-align: center;">x 3 = <u>84</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 4 = <u>40</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>135</u></td> <td style="text-align: center;">(A) <u>301</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>17</u>	x 1 = <u>17</u>	FACW species	<u>80</u>	x 2 = <u>160</u>	FAC species	<u>28</u>	x 3 = <u>84</u>	FACU species	<u>10</u>	x 4 = <u>40</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>135</u>	(A) <u>301</u> (B)	Prevalence Index = B/A = <u>2.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>135</u>	(A) <u>301</u> (B)																										
Prevalence Index = B/A = <u>2.2</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	0	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. <i>Spiraea tomentosa</i>	40	Yes	FACW																									
2. <i>Cornus racemosa</i>	28	Yes	FAC																									
3. <i>Lonicera japonica</i>	10	No	FACU																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	78	= Total Cover																										
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Carex scoparia</i>	40	Yes	FACW																									
2. <i>Angelica atropurpurea</i>	12	Yes	OBL																									
3. <i>Juncus effusus</i>	5	No	OBL																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	57	= Total Cover																										
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. <i>Carex scoparia</i>	0	No	FACW																									
2. <i>Angelica atropurpurea</i>	0	No	OBL																									
3. <i>Juncus effusus</i>	0	No	OBL																									
4. _____																												
	0	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
Remarks: (Include photo numbers here or on a separate sheet.)																												



Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-11\_UPL-1  
 Investigator(s): Brenner Fahrenz, Bridgette Rooney, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0520251223 Long: -76.1187240183 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Circumstances are not normal due to agricultural activities. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-11\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>35</u></td> <td style="text-align: center;">x 2 = <u>70</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>130</u></td> <td style="text-align: center;">x 4 = <u>520</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>165</u></td> <td style="text-align: center;">(A) <u>590</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.6</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>35</u>	x 2 = <u>70</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>130</u>	x 4 = <u>520</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>165</u>	(A) <u>590</u> (B)	Prevalence Index = B/A = <u>3.6</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>35</u>	x 2 = <u>70</u>																										
FAC species	<u>0</u>	x 3 = <u>0</u>																										
FACU species	<u>130</u>	x 4 = <u>520</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>165</u>	(A) <u>590</u> (B)																										
Prevalence Index = B/A = <u>3.6</u>																												
1. <i>Carya ovata</i>	60	Yes	FACU																									
2. <i>Ulmus americana</i>	5	No	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>65</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Lonicera japonica</i>	10	Yes	FACU																									
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>10</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Poa pratensis</i>	35	Yes	FACU																									
2. <i>Phalaris arundinacea</i>	30	Yes	FACW																									
3. <i>Carya ovata</i>	15	No	FACU																									
4. <i>Galium mollugo</i>	5	No	FACU																									
5. <i>Fragaria virginiana</i>	5	No	FACU																									
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>90</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Soil Photos



Photo of Sample Plot South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Sept-23  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-12\_PSS-1  
 Investigator(s): Brenner Fahrenz, Ryan Snow Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0587621465 Long: -76.1001952449 Datum: WGS84  
 Soil Map Unit Name: Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: None  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-BTF-12
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is PSS. Area is wetland, all three wetland parameters are present. Ditches/drain tiles observed. Circumstances are not normal due to agricultural activities. Circumstances are not normal due to mowing of vegetation. ATV/ORV impacts observed.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>10</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		
A positive indication of wetland hydrology was observed (primary and secondary indicators were present).		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-12 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>57</u></td> <td>x 1 = <u>57</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC species <u>75</u></td> <td>x 3 = <u>225</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>167</u></td> <td>(A) <u>352</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.1</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>57</u>	x 1 = <u>57</u>	FACW species <u>35</u>	x 2 = <u>70</u>	FAC species <u>75</u>	x 3 = <u>225</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>167</u>	(A) <u>352</u> (B)	Prevalence Index = B/A = <u>2.1</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>57</u>	x 1 = <u>57</u>																			
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Column Totals <u>167</u>	(A) <u>352</u> (B)																			
Prevalence Index = B/A = <u>2.1</u>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	0	= Total Cover																		
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																				
1. <i>Cornus racemosa</i>	40	Yes	FAC																	
2. <i>Rhamnus cathartica</i>	35	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	75	= Total Cover																		
<b>Herb Stratum (Plot size: 5 ft )</b>																				
1. <i>Symphytotrichum lanceolatum</i>	35	Yes	FACW																	
2. <i>Scirpus atrovirens</i>	25	Yes	OBL																	
3. <i>Epilobium palustre</i>	20	Yes	OBL																	
4. <i>Typha angustifolia</i>	12	No	OBL																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	92	= Total Cover																		
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																				
1. _____	0																			
2. _____																				
3. _____																				
4. _____																				
	0	= Total Cover																		
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>																				
A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																				





Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-Sept-23  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-BTF-12\_UPL-1  
 Investigator(s): Brenner Fahrenz, Ryan Snow Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Low Hill Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0586743419 Long: -76.100105882 Datum: WGS84  
 Soil Map Unit Name: Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: None  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to mowing of vegetation. Road shoulder.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
(includes capillary fringe)	
<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	
No positive indication of wetland hydrology was observed.	



VEGETATION -- Use scientific names of plants.

Sampling Point: W-BTF-12\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u>)</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>65</u></td> <td style="text-align: center;">x 4 = <u>260</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 5 = <u>100</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;"><u>(A) 375 (B)</u></td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>4.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>5</u>	x 3 = <u>15</u>	FACU species	<u>65</u>	x 4 = <u>260</u>	UPL species	<u>20</u>	x 5 = <u>100</u>	Column Totals	<u>90</u>	<u>(A) 375 (B)</u>	Prevalence Index = B/A = <u>4.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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UPL species	<u>20</u>	x 5 = <u>100</u>																										
Column Totals	<u>90</u>	<u>(A) 375 (B)</u>																										
Prevalence Index = B/A = <u>4.2</u>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)</b>																												
1. <i>Rhamnus cathartica</i>	5	Yes	FAC																									
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>5</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u>)</b>																												
1. <i>Taraxacum officinale</i>	25	Yes	FACU																									
2. <i>Festuca rubra</i>	20	Yes	FACU																									
3. <i>Trifolium pratense</i>	15	No	FACU																									
4. <i>Daucus carota</i>	15	No	UPL																									
5. <i>Setaria faberi</i>	5	No	FACU																									
6. <i>Verbascum thapsus</i>	5	No	UPL																									
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
<u>85</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u>)</b>																												
1. _____	0																											
2. _____																												
3. _____																												
4. _____																												
<u>0</u> = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b> Maintained road shoulder. No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC– or drier).																												



Soil Photos



Photo of Sample Plot East





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Watertown, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-JJB-01\_PSS-1  
 Investigator(s): Jake Brillo, Ryan Snow, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0894632973 Long: -75.9818617255 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_  
 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 <input checked="" type="checkbox"/> No ____		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-JJB-01
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No ____
Water Table Present? Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>6</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>0</u>	
<i>(includes capillary fringe)</i>		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-01 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>57</u></td> <td style="text-align: center;">x 1 = <u>57</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>120</u></td> <td style="text-align: center;">x 2 = <u>240</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>65</u></td> <td style="text-align: center;">x 3 = <u>195</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>242</u></td> <td style="text-align: center;">(A) <u>492</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>57</u>	x 1 = <u>57</u>	FACW species	<u>120</u>	x 2 = <u>240</u>	FAC species	<u>65</u>	x 3 = <u>195</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>242</u>	(A) <u>492</u> (B)	Prevalence Index = B/A = <u>2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>57</u>	x 1 = <u>57</u>																										
FACW species	<u>120</u>	x 2 = <u>240</u>																										
FAC species	<u>65</u>	x 3 = <u>195</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>242</u>	(A) <u>492</u> (B)																										
Prevalence Index = B/A = <u>2</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Cornus racemosa</i>	65	Yes	FAC																									
2. <i>Salix petiolaris</i>	30	Yes	FACW																									
3. <i>Salix discolor</i>	15	No	FACW																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>110</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Onoclea sensibilis</i>	75	Yes	FACW																									
2. <i>Typha latifolia</i>	35	Yes	OBL																									
3. <i>Carex lacustris</i>	15	No	OBL																									
4. <i>Equisetum fluviatile</i>	7	No	OBL																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>132</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Hydrology Photos





Vegetation Photos





Soil Photos



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Watertown, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-JJB-01\_UPL-1  
 Investigator(s): Jake Brillo, Ryan Snow, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0896362579 Long: -75.9821046331 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate report)			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?                    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-01 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>85</u></td> <td style="text-align: center;">x 3 = <u>255</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>95</u></td> <td style="text-align: center;">x 4 = <u>380</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>180</u></td> <td style="text-align: center;">(A) <u>635</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.5</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>85</u>	x 3 = <u>255</u>	FACU species	<u>95</u>	x 4 = <u>380</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>180</u>	(A) <u>635</u> (B)	Prevalence Index = B/A = <u>3.5</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>180</u>	(A) <u>635</u> (B)																										
Prevalence Index = B/A = <u>3.5</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Rhamnus cathartica</i>	65	Yes	FAC																									
2. <i>Lonicera tatarica</i>	40	Yes	FACU																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>105</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Lonicera tatarica</i>	40	Yes	FACU																									
2. <i>Rhamnus cathartica</i>	20	Yes	FAC																									
3. <i>Fragaria virginiana</i>	15	Yes	FACU																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>75</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Vegetation Photos



Soil Photos









**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05

Applicant/Owner: Geronimo State: NY Sampling Point: W-JJB-02\_PSS-1

Investigator(s): Jake Brillo, Ryan Snow, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1

Subregion (LRR or MLRA): LRR R Lat: 44.0537016141 Long: -76.123600714 Datum: WGS84

Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-JJB-02
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-02 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><b>Total % Cover of:</b></td> <td style="text-align: center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>135</u></td> <td>x 1 = <u>135</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>210</u></td> <td>(A) <u>340</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.6</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>135</u>	x 1 = <u>135</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>210</u>	(A) <u>340</u> (B)	Prevalence Index = B/A = <u>1.6</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>135</u>	x 1 = <u>135</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
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UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>210</u>	(A) <u>340</u> (B)																			
Prevalence Index = B/A = <u>1.6</u>																				
1. <i>Ulmus americana</i>	10	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Cornus amomum</i>	30	Yes	FACW																	
2. <i>Lonicera morrowii</i>	20	Yes	FACU																	
3. <i>Rhamnus cathartica</i>	10	No	FAC																	
4. <i>Vitis vulpina</i>	5	No	FAC																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>65</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Carex vulpinoidea</i>	75	Yes	OBL																	
2. <i>Juncus effusus</i>	45	Yes	OBL																	
3. <i>Typha angustifolia</i>	15	No	OBL																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>135</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>																				





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-JJB-02\_UPL-1  
 Investigator(s): Jake Brillo, Ryan Snow, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Agricultural field Local relief (concave, convex, none): None Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0537911747 Long: -76.1231971253 Datum: WGS84  
 Soil Map Unit Name: Cp-Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to agricultural activities.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>	
Surface Water Present?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?                         Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?                           Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
(includes capillary fringe)	
<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>	
<b>Remarks:</b>	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-02\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																																									
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%; text-align: center;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply By:</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td>x 2 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>15</u></td> <td>x 5 =</td> <td></td> <td style="text-align: center;"><u>75</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>15</u></td> <td>(A)</td> <td></td> <td style="text-align: center;"><u>75</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>5</u></td> </tr> </tbody> </table> <b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>		Total % Cover of:		Multiply By:		OBL species	<u>0</u>	x 1 =		<u>0</u>	FACW species	<u>0</u>	x 2 =		<u>0</u>	FAC species	<u>0</u>	x 3 =		<u>0</u>	FACU species	<u>0</u>	x 4 =		<u>0</u>	UPL species	<u>15</u>	x 5 =		<u>75</u>	Column Totals	<u>15</u>	(A)		<u>75</u> (B)	Prevalence Index = B/A =				<u>5</u>
	Total % Cover of:		Multiply By:																																									
OBL species	<u>0</u>	x 1 =			<u>0</u>																																							
FACW species	<u>0</u>	x 2 =			<u>0</u>																																							
FAC species	<u>0</u>	x 3 =			<u>0</u>																																							
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UPL species	<u>15</u>	x 5 =			<u>75</u>																																							
Column Totals	<u>15</u>	(A)			<u>75</u> (B)																																							
Prevalence Index = B/A =					<u>5</u>																																							
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																																												
1. <i>Zea mays</i>	15	Yes	UPL																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	<u>15</u>	= Total Cover																																										
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																																												
1. _____	_____	_____	_____																																									
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	<u>0</u>	= Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East







VEGETATION -- Use scientific names of plants.

Sampling Point: W-JJB-11\_PEM-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>35</u></td> <td style="text-align: center;">x 1 = <u>35</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>30</u></td> <td style="text-align: center;">x 2 = <u>60</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 3 = <u>30</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>75</u></td> <td style="text-align: center;">(A) <u>125</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.7</u></td> </tr> </tbody> </table> <b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>35</u>	x 1 = <u>35</u>	FACW species	<u>30</u>	x 2 = <u>60</u>	FAC species	<u>10</u>	x 3 = <u>30</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>75</u>	(A) <u>125</u> (B)	Prevalence Index = B/A = <u>1.7</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Carex scoparia</i>	30	Yes	FACW																									
2. <i>Carex vulpinoidea</i>	20	Yes	OBL																									
3. <i>Juncus effusus</i>	15	Yes	OBL																									
4. <i>Euthamia graminifolia</i>	10	No	FAC																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>75</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
Remarks: (Include photo numbers here or on a separate sheet.)																												



Vegetation Photos





Soil Photos



Photo of Sample Plot North



Photo of Sample Plot  
East



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.068490183 Long: -76.1162875873 Datum: WGS84  
 Soil Map Unit Name: Fu--Fluvaquents-Udifluvents complex, frequently flooded NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><b>Total % Cover of:</b></td> <td style="text-align: center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>110</u></td> <td>x 4 = <u>440</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>140</u></td> <td>(A) <u>530</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>110</u>	x 4 = <u>440</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>140</u>	(A) <u>530</u> (B)	Prevalence Index = B/A = <u>3.8</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>110</u>	x 4 = <u>440</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>140</u>	(A) <u>530</u> (B)																			
Prevalence Index = B/A = <u>3.8</u>																				
1. <i>Tilia americana</i>	40	Yes	FACU																	
2. <i>Carya ovata</i>	15	Yes	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>55</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Lonicera morrowii</i>	40	Yes	FACU																	
2. <i>Rhamnus cathartica</i>	30	Yes	FAC																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>70</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Lonicera morrowii</i>	15	Yes	FACU																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>15</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01

Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_PEM-2

Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): 0 to 1

Subregion (LRR or MLRA): LRR R Lat: 44.0690789279 Long: -76.1151459721 Datum: WGS84

Soil Map Unit Name: FU-- Fluvaquents-Udifluvents complex, frequently flooded NWI classification: \_\_\_\_\_

- Status
- Slope Gradient - Dominant Component 2.00
- Slope Gradient - Weighted Average 1.50
- Bedrock Depth - Minimum
- Water Table Depth - Annual - Minimum 0
- Water Table Depth - April - June - Minimum 0
- Flooding Frequency - Dominant Condition Frequent
- Flooding Frequency - Maximum Frequent
- Ponding Frequency - Presence 15-49%
- Available Water Storage 0-25 cm - Weighted Average 3.10
- Available Water Storage 0-50 cm - Weighted Average 5.60
- Available Water Storage 0-100 cm - Weighted Average 10.60
- Available Water Storage 0-150 cm - Weighted Average 15.60
- Drainage Class - Dominant Condition Well drained
- Drainage Class - Wettest Poorly drained
- Hydrologic Group - Dominant Conditions A/D
- Irrigated Capability Class - Dominant Condition
- Irrigated Capability Class - Dominant Condition Aggregate Percent 100
- Non-Irrigated Capability Class - Dominant Condition 5
- Non-Irrigated Capability Class - Dominant Condition Aggregate Percent 90
- ENG - Dwellings W/O Basements - Dominant Condition Very limited
- ENG - Dwellings with Basements - Dominant Condition Very limited
- ENG - Dwellings with Basements - Least Limiting Very limited
- ENG - Dwellings with Basements - Most Limiting Very limited
- ENG - Septic Tank Absorption Fields - Dominant Condition
- ENG - Septic Tank Absorption Fields - Least Limiting
- ENG - Septic Tank Absorption Fields - Most Limiting
- ENG - Sewage Lagoons - Dominant Condition
- ENG - Sewage Lagoons - Dominant Component
- ENG - Local Roads and Streets - Dominant Condition Very limited
- ENG - Construction Materials; Sand Source - Dominant Condition
- ENG - Construction Materials; Sand Source - Most Probable
- URB/REC - Paths and Trails - Dominant Condition Very limited
- URB/REC - Paths and Trails - Weighted Average 0.70
- FOR - Potential Erosion Hazard (Road/Trail) - Dominant Component Slight
- Hydric Classification - Presence Partially hydric
- AWM - Manure and Food Processing Waste - Weighted Average
- Mapunit Key 291818

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: W-NSD-01

**Remarks: (Explain alternative procedures here or in a separate report)**  
 Coverttype is PEM.



**HYDROLOGY**

**Wetland Hydrology Indicators:**

**Primary Indicators (minimum of one is required; check all that apply)**

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)

- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	0

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01 PEM-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 1 = <u>10</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>95</u></td> <td style="text-align: center;">x 2 = <u>190</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>105</u></td> <td style="text-align: center;">(A) <u>200</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>10</u>	x 1 = <u>10</u>	FACW species	<u>95</u>	x 2 = <u>190</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>105</u>	(A) <u>200</u> (B)	Prevalence Index = B/A = <u>1.9</u>		
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2. _____	_____	_____	_____																									
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4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>10</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	60	Yes	FACW																									
2. <i>Impatiens capensis</i>	25	Yes	FACW																									
3. <i>Carex crinita</i>	10	No	OBL																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>95</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Vegetation Photos





Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_PFO-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0683378 Long: -76.1162523833 Datum: WGS84  
 Soil Map Unit Name: GbB--Galoo-Rock outcrop complex, 0 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_  
 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 <input checked="" type="checkbox"/> No ____		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NSD-01
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PFO.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present?	Yes ____ No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>3</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches): <u>0</u>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No ____
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01\_PFO-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>48</u></td> <td style="text-align: center;">x 1 = <u>48</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 2 = <u>30</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>63</u></td> <td style="text-align: center;">(A) <u>78</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>48</u>	x 1 = <u>48</u>	FACW species	<u>15</u>	x 2 = <u>30</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>63</u>	(A) <u>78</u> (B)	Prevalence Index = B/A = <u>1.2</u>		
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Column Totals	<u>63</u>	(A) <u>78</u> (B)																										
Prevalence Index = B/A = <u>1.2</u>																												
1. <i>Salix nigra</i>	40	Yes	OBL																									
2. <i>Fraxinus pennsylvanica</i>	15	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>55</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>0</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Carex stricta</i>	8	Yes	OBL																									
2. _____																												
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>8</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
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Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Hydrology Photos





Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_PUB-3  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0691971966 Long: -76.1141925306 Datum: WGS84  
 Soil Map Unit Name: Fu--Fluvaquents-Udifluvents complex, frequently flooded NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_  
 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 <input checked="" type="checkbox"/> No ____		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NSD-01
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is PUB.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
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<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>12</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
<i>(includes capillary fringe)</i>			
<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No ____			
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01 PUB-3

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>10</u></td> <td>(A) <u>15</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.5</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>10</u>	(A) <u>15</u> (B)	Prevalence Index = B/A = <u>1.5</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
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Column Totals <u>10</u>	(A) <u>15</u> (B)																			
Prevalence Index = B/A = <u>1.5</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <i>Phalaris arundinacea</i>	5	Yes	FACW																	
2. <i>Schoenoplectus tabernaemontani</i>	5	Yes	OBL																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				





Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-01  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_UPL-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Low Hill Local relief (concave, convex, none): Convex Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0691896948 Long: -76.1151554436 Datum: WGS84  
 Soil Map Unit Name: Fu--Fluvaquents-Udifluvents complex, frequently flooded NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01 UPL-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>8</u></td> <td style="text-align: center;">x 2 = <u>16</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>40</u></td> <td style="text-align: center;">x 3 = <u>120</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>70</u></td> <td style="text-align: center;">x 4 = <u>280</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 5 = <u>100</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>138</u></td> <td style="text-align: center;">(A) <u>516</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.7</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>8</u>	x 2 = <u>16</u>	FAC species	<u>40</u>	x 3 = <u>120</u>	FACU species	<u>70</u>	x 4 = <u>280</u>	UPL species	<u>20</u>	x 5 = <u>100</u>	Column Totals	<u>138</u>	(A) <u>516</u> (B)	Prevalence Index = B/A = <u>3.7</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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UPL species	<u>20</u>	x 5 = <u>100</u>																										
Column Totals	<u>138</u>	(A) <u>516</u> (B)																										
Prevalence Index = B/A = <u>3.7</u>																												
1. <i>Fraxinus americana</i>	15	Yes	FACU																									
2. <i>Tilia americana</i>	10	Yes	FACU																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>25</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Rhamnus cathartica</i>	40	Yes	FAC																									
2. <i>Lonicera morrowii</i>	15	Yes	FACU																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>55</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Solidago canadensis</i>	30	Yes	FACU																									
2. <i>Fragaria vesca</i>	20	Yes	UPL																									
3. <i>Anemone canadensis</i>	8	No	FACW																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>58</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)     																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-01\_UPL-3  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 1 to 10  
 Subregion (LRR or MLRA): LRR R Lat: 44.0692006331 Long: -76.1142334343 Datum: WGS84  
 Soil Map Unit Name: FU--Fluvaquents-Udifluvents complex, frequently flooded NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-01 UPL-3

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>30</u></td> <td style="text-align: center;">x 3 = <u>90</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>123</u></td> <td style="text-align: center;">x 4 = <u>492</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>153</u></td> <td style="text-align: center;"><u>(A) 582 (B)</u></td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>30</u>	x 3 = <u>90</u>	FACU species	<u>123</u>	x 4 = <u>492</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>153</u>	<u>(A) 582 (B)</u>	Prevalence Index = B/A = <u>3.8</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>0</u>	x 2 = <u>0</u>																										
FAC species	<u>30</u>	x 3 = <u>90</u>																										
FACU species	<u>123</u>	x 4 = <u>492</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>153</u>	<u>(A) 582 (B)</u>																										
Prevalence Index = B/A = <u>3.8</u>																												
1. <i>Tilia americana</i>	30	Yes	FACU																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>30</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Rhamnus cathartica</i>	30	Yes	FAC																									
2. <i>Lonicera morrowii</i>	20	Yes	FACU																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>50</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Plantago lanceolata</i>	30	Yes	FACU																									
2. <i>Fragaria virginiana</i>	20	Yes	FACU																									
3. <i>Trifolium repens</i>	15	Yes	FACU																									
4. <i>Vicia americana</i>	8	No	FACU																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>73</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-02\_PEM-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.067146061 Long: -76.1143743341 Datum: WGS84  
 Soil Map Unit Name: CIA--Chaumont silty clay, 0 to 3 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-02
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-02\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>Total % Cover of:</b></td> <td style="text-align: center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>85</u></td> <td>(A) <u>195</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.3</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>85</u>	(A) <u>195</u> (B)	Prevalence Index = B/A = <u>2.3</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>85</u>	(A) <u>195</u> (B)																			
Prevalence Index = B/A = <u>2.3</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Cornus racemosa</i>	10	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Anemone canadensis</i>	30	Yes	FACW																	
2. <i>Euthamia graminifolia</i>	20	Yes	FAC																	
3. <i>Juncus effusus</i>	10	No	OBL																	
4. <i>Carex grayi</i>	10	No	FACW																	
5. <i>Cornus racemosa</i>	5	No	FAC																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>75</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-02\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.067203058 Long: -76.1145677884 Datum: WGS84  
 Soil Map Unit Name: CIA--Chaumont silty clay, 0 to 3 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-02\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>7</u></td> <td style="text-align: center;">x 3 = <u>21</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">x 4 = <u>320</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>87</u></td> <td style="text-align: center;">(A) <u>341</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>7</u>	x 3 = <u>21</u>	FACU species	<u>80</u>	x 4 = <u>320</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>87</u>	(A) <u>341</u> (B)	Prevalence Index = B/A = <u>3.9</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>0</u>	x 2 = <u>0</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>87</u>	(A) <u>341</u> (B)																										
Prevalence Index = B/A = <u>3.9</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Lonicera morrowii</i>	30	Yes	FACU																									
2. <i>Cornus racemosa</i>	7	No	FAC																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>37</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Solidago canadensis</i>	25	Yes	FACU																									
2. <i>Potentilla simplex</i>	25	Yes	FACU																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>50</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-03\_PFO-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0665343916 Long: -76.1127956864 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-03
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PFO.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03 PFO-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>145</u></td> <td>x 2 = <u>290</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>18</u></td> <td>x 4 = <u>72</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>188</u></td> <td>(A) <u>417</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>145</u>	x 2 = <u>290</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>18</u>	x 4 = <u>72</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>188</u>	(A) <u>417</u> (B)	Prevalence Index = B/A = <u>2.2</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>145</u>	x 2 = <u>290</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>18</u>	x 4 = <u>72</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>188</u>	(A) <u>417</u> (B)																			
Prevalence Index = B/A = <u>2.2</u>																				
1. <i>Quercus bicolor</i>	70	Yes	FACW																	
2. <i>Carya ovata</i>	10	No	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>80</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																				
1. <i>Cornus racemosa</i>	15	Yes	FAC																	
2. <i>Lonicera morrowii</i>	3	No	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>18</u> = Total Cover																				
<b>Herb Stratum (Plot size: 5 ft )</b>																				
1. <i>Carex bromoides</i>	60	Yes	FACW																	
2. <i>Anemone canadensis</i>	15	No	FACW																	
3. <i>Carex crinita</i>	10	No	OBL																	
4. <i>Parthenocissus quinquefolia</i>	5	No	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>90</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West







VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03 PSS-2

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Total % Cover of:</th> <th style="width: 50%; text-align: center;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>150</u></td> <td>x 2 = <u>300</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>160</u></td> <td>(A) <u>310</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.9</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply By:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>150</u>	x 2 = <u>300</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>160</u>	(A) <u>310</u> (B)	Prevalence Index = B/A = <u>1.9</u>	
Total % Cover of:	Multiply By:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>150</u>	x 2 = <u>300</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>160</u>	(A) <u>310</u> (B)																			
Prevalence Index = B/A = <u>1.9</u>																				
1. <i>Fraxinus pennsylvanica</i>	10	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Spiraea alba</i>	70	Yes	FACW																	
2. <i>Quercus bicolor</i>	10	No	FACW																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>80</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Spiraea alba</i>	40	Yes	FACW																	
2. <i>Phalaris arundinacea</i>	20	Yes	FACW																	
3. <i>Galium asprellum</i>	10	No	OBL																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>70</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				



Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-03\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0663724533 Long: -76.1127493345 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate report)			
Covertyping is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>65</u></td> <td>x 4 = <u>260</u></td> </tr> <tr> <td>UPL species <u>50</u></td> <td>x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals <u>165</u></td> <td>(A) <u>640</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>3.9</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>65</u>	x 4 = <u>260</u>	UPL species <u>50</u>	x 5 = <u>250</u>	Column Totals <u>165</u>	(A) <u>640</u> (B)	Prevalence Index = B/A = <u>3.9</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>65</u>	x 4 = <u>260</u>																			
UPL species <u>50</u>	x 5 = <u>250</u>																			
Column Totals <u>165</u>	(A) <u>640</u> (B)																			
Prevalence Index = B/A = <u>3.9</u>																				
1. <i>Carya ovata</i>	40	Yes	FACU																	
2. <i>Quercus bicolor</i>	20	Yes	FACW																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>60</u> = Total Cover																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. <i>Rhamnus cathartica</i>	30	Yes	FAC																	
2. <i>Lonicera morrowii</i>	10	Yes	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>40</u> = Total Cover																				
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <i>Fragaria vesca</i>	50	Yes	UPL																	
2. <i>Ribes oxycanthoides</i>	15	Yes	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>65</u> = Total Cover																				
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Vegetation Photos





Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02

Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-03\_UPL-2

Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1

Subregion (LRR or MLRA): LRR R Lat: 44.0657627536 Long: -76.1138145906 Datum: WGS84

Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>4</u>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-03 UPL-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 2 = <u>20</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>40</u></td> <td style="text-align: center;">x 3 = <u>120</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>120</u></td> <td style="text-align: center;">x 4 = <u>480</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;">x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>220</u></td> <td style="text-align: center;">(A) <u>870</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>10</u>	x 2 = <u>20</u>	FAC species	<u>40</u>	x 3 = <u>120</u>	FACU species	<u>120</u>	x 4 = <u>480</u>	UPL species	<u>50</u>	x 5 = <u>250</u>	Column Totals	<u>220</u>	(A) <u>870</u> (B)	Prevalence Index = B/A = <u>4</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>10</u>	x 2 = <u>20</u>																										
FAC species	<u>40</u>	x 3 = <u>120</u>																										
FACU species	<u>120</u>	x 4 = <u>480</u>																										
UPL species	<u>50</u>	x 5 = <u>250</u>																										
Column Totals	<u>220</u>	(A) <u>870</u> (B)																										
Prevalence Index = B/A = <u>4</u>																												
1. <i>Carya ovata</i>	60	Yes	FACU																									
2. <i>Quercus bicolor</i>	10	No	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>70</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Lonicera morrowii</i>	40	Yes	FACU																									
2. <i>Rhamnus cathartica</i>	25	Yes	FAC																									
3. <i>Cornus racemosa</i>	15	No	FAC																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
<u>80</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Fragaria vesca</i>	50	Yes	UPL																									
2. <i>Ribes oxycanthoides</i>	15	Yes	FACU																									
3. <i>Galium mollugo</i>	5	No	FACU																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
<u>70</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos



Soil Photos



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-04\_PSS-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0625327034 Long: -76.1172998697 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-04
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-04 PSS-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>25</u></td> <td style="text-align: center;">x 1 = <u>25</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>38</u></td> <td style="text-align: center;">x 2 = <u>76</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>30</u></td> <td style="text-align: center;">x 3 = <u>90</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>8</u></td> <td style="text-align: center;">x 4 = <u>32</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>101</u></td> <td style="text-align: center;">(A) <u>223</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>25</u>	x 1 = <u>25</u>	FACW species	<u>38</u>	x 2 = <u>76</u>	FAC species	<u>30</u>	x 3 = <u>90</u>	FACU species	<u>8</u>	x 4 = <u>32</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>101</u>	(A) <u>223</u> (B)	Prevalence Index = B/A = <u>2.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>25</u>	x 1 = <u>25</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>101</u>	(A) <u>223</u> (B)																										
Prevalence Index = B/A = <u>2.2</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																												
1. <i>Cornus racemosa</i>	30	Yes	FAC																									
2. <i>Salix nigra</i>	10	No	OBL																									
3. <i>Fraxinus pennsylvanica</i>	8	No	FACW																									
4. <i>Lonicera morrowii</i>	8	No	FACU																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
56 = Total Cover																												
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																												
1. <i>Persicaria punctata</i>	15	Yes	OBL																									
2. <i>Carex bromoides</i>	15	Yes	FACW																									
3. <i>Phalaris arundinacea</i>	10	Yes	FACW																									
4. <i>Anemone canadensis</i>	5	No	FACW																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
45 = Total Cover																												
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No ___																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot South



Photo of Sample Plot West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-02  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-04\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0625153948 Long: -76.1171525997 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-04 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>30</u></td> <td style="text-align: center;">x 2 = <u>60</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>32</u></td> <td style="text-align: center;">x 3 = <u>96</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>55</u></td> <td style="text-align: center;">x 4 = <u>220</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>18</u></td> <td style="text-align: center;">x 5 = <u>90</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>135</u></td> <td style="text-align: center;"><u>(A) 466 (B)</u></td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.5</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>30</u>	x 2 = <u>60</u>	FAC species	<u>32</u>	x 3 = <u>96</u>	FACU species	<u>55</u>	x 4 = <u>220</u>	UPL species	<u>18</u>	x 5 = <u>90</u>	Column Totals	<u>135</u>	<u>(A) 466 (B)</u>	Prevalence Index = B/A = <u>3.5</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>30</u>	x 2 = <u>60</u>																										
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Column Totals	<u>135</u>	<u>(A) 466 (B)</u>																										
Prevalence Index = B/A = <u>3.5</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
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5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Lonicera morrowii</i>	30	Yes	FACU																									
2. <i>Cornus racemosa</i>	15	Yes	FAC																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>45</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	30	Yes	FACW																									
2. <i>Phleum pratense</i>	25	Yes	FACU																									
3. <i>Fragaria vesca</i>	18	Yes	UPL																									
4. <i>Euthamia graminifolia</i>	12	No	FAC																									
5. <i>Cornus racemosa</i>	5	No	FAC																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>90</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-05\_PEM-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0607902315 Long: -76.113894973 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyping is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05 PEM-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;">x 1 = <u>10</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>65</u></td> <td style="text-align: center;">x 2 = <u>130</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>15</u></td> <td style="text-align: center;">x 3 = <u>45</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">(A) <u>185</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.1</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>10</u>	x 1 = <u>10</u>	FACW species	<u>65</u>	x 2 = <u>130</u>	FAC species	<u>15</u>	x 3 = <u>45</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>90</u>	(A) <u>185</u> (B)	Prevalence Index = B/A = <u>2.1</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>10</u>	x 1 = <u>10</u>																										
FACW species	<u>65</u>	x 2 = <u>130</u>																										
FAC species	<u>15</u>	x 3 = <u>45</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>90</u>	(A) <u>185</u> (B)																										
Prevalence Index = B/A = <u>2.1</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
	<u>0</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
	<u>0</u>	= Total Cover																										
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Phalaris arundinacea</i>	65	Yes	FACW																									
2. <i>Euthamia graminifolia</i>	15	No	FAC																									
3. <i>Juncus effusus</i>	10	No	OBL																									
4. <i>Carex sp.</i>	5	No	NI																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
	<u>95</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
	<u>0</u>	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East



Photo of Sample Plot South



Photo of Sample Plot West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-05\_PSS-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0608026367 Long: -76.1138249841 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-05
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Total % Cover of:</b></td> <td style="width: 50%;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>88</u></td> <td>x 1 = <u>88</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2 = <u>70</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>133</u></td> <td>(A) <u>188</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.4</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>88</u>	x 1 = <u>88</u>	FACW species <u>35</u>	x 2 = <u>70</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>133</u>	(A) <u>188</u> (B)	Prevalence Index = B/A = <u>1.4</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>88</u>	x 1 = <u>88</u>																			
FACW species <u>35</u>	x 2 = <u>70</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>133</u>	(A) <u>188</u> (B)																			
Prevalence Index = B/A = <u>1.4</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. <i>Salix nigra</i>	30	Yes	OBL																	
2. <i>Spiraea alba</i>	15	Yes	FACW																	
3. <i>Cornus racemosa</i>	10	No	FAC																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>55</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Carex lacustris</i>	30	Yes	OBL																	
2. <i>Spiraea alba</i>	20	Yes	FACW																	
3. <i>Galium palustre</i>	15	No	OBL																	
4. <i>Juncus effusus</i>	8	No	OBL																	
5. <i>Persicaria punctata</i>	5	No	OBL																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>78</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>																				





Vegetation Photos





Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot East



Photo of Sample Plot South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-05\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0594342733 Long: -76.1162035244 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-05\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><b>Total % Cover of:</b></td> <td style="text-align: center;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>48</u></td> <td>x 4 = <u>192</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>88</u></td> <td>(A) <u>272</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.1</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>48</u>	x 4 = <u>192</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>88</u>	(A) <u>272</u> (B)	Prevalence Index = B/A = <u>3.1</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
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Column Totals <u>88</u>	(A) <u>272</u> (B)																			
Prevalence Index = B/A = <u>3.1</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																				
1. <i>Phalaris arundinacea</i>	40	Yes	FACW																	
2. <i>Trifolium pratense</i>	20	Yes	FACU																	
3. <i>Phleum pratense</i>	20	Yes	FACU																	
4. <i>Taraxacum officinale</i>	8	No	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>88</u> = Total Cover																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-06\_PSS-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0623210185 Long: -76.113367416 Datum: WGS84  
 Soil Map Unit Name: Lc--Livingston mucky silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-06
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-06 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>95</u></td> <td style="text-align: center;">x 2 = <u>190</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>47</u></td> <td style="text-align: center;">x 3 = <u>141</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 4 = <u>20</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>147</u></td> <td style="text-align: center;">(A) <u>351</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>95</u>	x 2 = <u>190</u>	FAC species	<u>47</u>	x 3 = <u>141</u>	FACU species	<u>5</u>	x 4 = <u>20</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>147</u>	(A) <u>351</u> (B)	Prevalence Index = B/A = <u>2.4</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>95</u>	x 2 = <u>190</u>																										
FAC species	<u>47</u>	x 3 = <u>141</u>																										
FACU species	<u>5</u>	x 4 = <u>20</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>147</u>	(A) <u>351</u> (B)																										
Prevalence Index = B/A = <u>2.4</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Spiraea alba</i>	40	Yes	FACW																									
2. <i>Cornus racemosa</i>	10	No	FAC																									
3. <i>Quercus bicolor</i>	5	No	FACW																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>55</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Carex bromoides</i>	30	Yes	FACW																									
2. <i>Spiraea alba</i>	20	Yes	FACW																									
3. <i>Toxicodendron radicans</i>	20	Yes	FAC																									
4. <i>Cornus racemosa</i>	12	No	FAC																									
5. <i>Acer rubrum</i>	5	No	FAC																									
6. <i>Vicia americana</i>	5	No	FACU																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>92</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>																												





Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West









VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-06\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;">x 2 = <u>100</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;">x 3 = <u>150</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">x 4 = <u>320</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>180</u></td> <td style="text-align: center;">(A) <u>570</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>50</u>	x 2 = <u>100</u>	FAC species	<u>50</u>	x 3 = <u>150</u>	FACU species	<u>80</u>	x 4 = <u>320</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>180</u>	(A) <u>570</u> (B)	Prevalence Index = B/A = <u>3.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>50</u>	x 2 = <u>100</u>																										
FAC species	<u>50</u>	x 3 = <u>150</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>180</u>	(A) <u>570</u> (B)																										
Prevalence Index = B/A = <u>3.2</u>																												
1. <i>Carya ovata</i>	30	Yes	FACU																									
2. <i>Quercus bicolor</i>	8	Yes	FACW																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>38</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Lonicera morrowii</i>	40	Yes	FACU																									
2. <i>Cornus racemosa</i>	20	Yes	FAC																									
3. <i>Rhamnus cathartica</i>	12	No	FAC																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>72</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Carex bromoides</i>	30	Yes	FACW																									
2. <i>Spiraea alba</i>	12	Yes	FACW																									
3. <i>Lonicera morrowii</i>	10	No	FACU																									
4. <i>Cornus racemosa</i>	8	No	FAC																									
5. <i>Rhamnus cathartica</i>	5	No	FAC																									
6. <i>Acer rubrum</i>	5	No	FAC																									
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>70</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-07\_PEM-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.059760389 Long: -76.1069644802 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-07
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyping is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>4</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07 PEM-2

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>75</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>75</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>25</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>50</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>100</u></td> <td>(A)</td> <td style="text-align: center;"><u>125</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: center;">Prevalence Index = B/A = <u>1.3</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:	OBL species	<u>75</u>	x 1 =	<u>75</u>	FACW species	<u>25</u>	x 2 =	<u>50</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals	<u>100</u>	(A)	<u>125</u> (B)	Prevalence Index = B/A = <u>1.3</u>			
	Total % Cover of:		Multiply By:																																	
OBL species	<u>75</u>	x 1 =	<u>75</u>																																	
FACW species	<u>25</u>	x 2 =	<u>50</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
FACU species	<u>0</u>	x 4 =	<u>0</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals	<u>100</u>	(A)	<u>125</u> (B)																																	
Prevalence Index = B/A = <u>1.3</u>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																																				
1. <i>Salix bebbiana</i>	10	Yes	FACW																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>10</u> = Total Cover																																				
<b>Herb Stratum (Plot size: 5 ft )</b>																																				
1. <i>Carex lacustris</i>	75	Yes	OBL																																	
2. <i>Phalaris arundinacea</i>	15	No	FACW																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
<u>90</u> = Total Cover																																				
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																																				



Hydrology Photos



Vegetation Photos





Soil Photos



Photo of Sample Plot North



Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-07\_PSS-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0598174278 Long: -76.1071634666 Datum: WGS84  
 Soil Map Unit Name: Cp--Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_  
 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 <input checked="" type="checkbox"/> No ____		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No ____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No ____
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No ____	If yes, optional Wetland Site ID:	W-NSD-07
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PSS.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>1</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>5</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No ____	Depth (inches):	<u>0</u>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No ____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07 PSS-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>75</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>150</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>75</u></td> <td>(A)</td> <td style="text-align: center;"><u>150</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:	OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>75</u>	x 2 =	<u>150</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals	<u>75</u>	(A)	<u>150</u> (B)	Prevalence Index = B/A = <u>2</u>			
	Total % Cover of:		Multiply By:																																	
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>75</u>	x 2 =	<u>150</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
FACU species	<u>0</u>	x 4 =	<u>0</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals	<u>75</u>	(A)	<u>150</u> (B)																																	
Prevalence Index = B/A = <u>2</u>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																																				
1. <i>Salix bebbiana</i>	70	Yes	FACW																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>70</u> = Total Cover																																				
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																																				
1. <i>Carex annectens</i>	5	Yes	FACW																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
<u>5</u> = Total Cover																																				
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																																				





Hydrology Photos





Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03

Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-07\_UPL-1

Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 1 to 3

Subregion (LRR or MLRA): LRR R Lat: 44.0600291966 Long: -76.1071814877 Datum: WGS84

Soil Map Unit Name: \_\_\_\_\_ NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)			
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>20</u></td> <td>x 5 = <u>100</u></td> </tr> <tr> <td>Column Totals <u>100</u></td> <td>(A) <u>360</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>3.6</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>20</u>	x 5 = <u>100</u>	Column Totals <u>100</u>	(A) <u>360</u> (B)	Prevalence Index = B/A = <u>3.6</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>30</u>	x 2 = <u>60</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>20</u>	x 5 = <u>100</u>																			
Column Totals <u>100</u>	(A) <u>360</u> (B)																			
Prevalence Index = B/A = <u>3.6</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <i>Poa pratensis</i>	40	Yes	FACU																	
2. <i>Phalaris arundinacea</i>	30	Yes	FACW																	
3. <i>Asclepias syriaca</i>	10	No	UPL																	
4. <i>Galium mollugo</i>	10	No	FACU																	
5. <i>Daucus carota</i>	10	No	UPL																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>100</u> = Total Cover																				
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>0</u> = Total Cover																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-03  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-07\_UPL-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0598574095 Long: -76.1071445235 Datum: WGS84  
 Soil Map Unit Name: Cp-Covington silty clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-07 UPL-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 2 = <u>40</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>67</u></td> <td style="text-align: center;">x 4 = <u>268</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>92</u></td> <td style="text-align: center;">(A) <u>323</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>3.5</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>20</u>	x 2 = <u>40</u>	FAC species	<u>5</u>	x 3 = <u>15</u>	FACU species	<u>67</u>	x 4 = <u>268</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>92</u>	(A) <u>323</u> (B)	Prevalence Index = B/A = <u>3.5</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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FAC species	<u>5</u>	x 3 = <u>15</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>92</u>	(A) <u>323</u> (B)																										
Prevalence Index = B/A = <u>3.5</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Poa pratensis</i>	30	Yes	FACU																									
2. <i>Galium mollugo</i>	25	Yes	FACU																									
3. <i>Phalaris arundinacea</i>	20	Yes	FACW																									
4. <i>Vicia americana</i>	12	No	FACU																									
5. <i>Fallopia scandens</i>	5	No	FAC																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>92</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-08\_PEM-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0610108851 Long: -76.1028094032 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-08
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypc is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-08 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 20%;"></th> <th style="width: 30%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>30</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>30</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>65</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>130</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>95</u></td> <td>(A)</td> <td style="text-align: center;"><u>160</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A = <u>1.7</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>		<u>Multiply By:</u>	OBL species	<u>30</u>	x 1 =	<u>30</u>	FACW species	<u>65</u>	x 2 =	<u>130</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals	<u>95</u>	(A)	<u>160</u> (B)	Prevalence Index = B/A = <u>1.7</u>			
	<u>Total % Cover of:</u>		<u>Multiply By:</u>																																	
OBL species	<u>30</u>	x 1 =	<u>30</u>																																	
FACW species	<u>65</u>	x 2 =	<u>130</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
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Column Totals	<u>95</u>	(A)	<u>160</u> (B)																																	
Prevalence Index = B/A = <u>1.7</u>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
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5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
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<u>0</u> = Total Cover																																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
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5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																																				
1. <i>Phalaris arundinacea</i>	65	Yes	FACW																																	
2. <i>Typha angustifolia</i>	30	Yes	OBL																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
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11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
<u>95</u> = Total Cover																																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
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<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>     																																				



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-08\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0609652875 Long: -76.1029205472 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
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<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-08\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>40</u></td> <td style="text-align: center;">x 2 = <u>80</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>40</u></td> <td style="text-align: center;">x 4 = <u>160</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>80</u></td> <td style="text-align: center;">(A) <u>240</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>40</u>	x 2 = <u>80</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>40</u>	x 4 = <u>160</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>80</u>	(A) <u>240</u> (B)	Prevalence Index = B/A = <u>3</u>		
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
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<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	40	Yes	FACW																									
2. <i>Poa pratensis</i>	20	Yes	FACU																									
3. <i>Vicia americana</i>	12	No	FACU																									
4. <i>Galium mollugo</i>	8	No	FACU																									
5. <i>Glycine max</i>	5	No	NI																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
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12. _____	_____	_____	_____																									
<u>85</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
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<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-09\_PEM-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0644799034 Long: -76.0995024071 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-09
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyping is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-09 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>105</u></td> <td>x 2 = <u>210</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>105</u></td> <td>(A) <u>210</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table> <b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>105</u>	x 2 = <u>210</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>105</u>	(A) <u>210</u> (B)	Prevalence Index = B/A = <u>2</u>		
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1. <i>Phalaris arundinacea</i>	100	Yes	FACW																									
2. <i>Solidago gigantea</i>	5	No	FACW																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
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<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West







VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-09 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
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Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West



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 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0662429529 Long: -76.0958177225 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-10
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>1</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>85</u></td> <td>x 2 = <u>170</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>95</u></td> <td>(A) <u>210</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>85</u>	x 2 = <u>170</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>10</u>	x 4 = <u>40</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>95</u>	(A) <u>210</u> (B)	Prevalence Index = B/A = <u>2.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
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Column Totals	<u>95</u>	(A) <u>210</u> (B)																										
Prevalence Index = B/A = <u>2.2</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Carex annectens</i>	40	Yes	FACW																									
2. <i>Phalaris arundinacea</i>	25	Yes	FACW																									
3. <i>Carex bromoides</i>	20	Yes	FACW																									
4. <i>Dactylis glomerata</i>	10	No	FACU																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>95</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												



Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-10\_PFO-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Swamp Local relief (concave, convex, none): Undulating Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0663193539 Long: -76.0944693257 Datum: WGS84  
 Soil Map Unit Name: LRR R Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-10
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is PFO.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10\_PFO-2

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>52</u></td> <td>x 4 = <u>208</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>182</u></td> <td>(A) <u>508</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>2.8</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>90</u>	x 2 = <u>180</u>	FAC species	<u>40</u>	x 3 = <u>120</u>	FACU species	<u>52</u>	x 4 = <u>208</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>182</u>	(A) <u>508</u> (B)	Prevalence Index = B/A = <u>2.8</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
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UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>182</u>	(A) <u>508</u> (B)																										
Prevalence Index = B/A = <u>2.8</u>																												
1. <i>Carya ovata</i>	40	Yes	FACU																									
2. <i>Quercus bicolor</i>	25	Yes	FACW																									
3. <i>Acer rubrum</i>	10	No	FAC																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>75</u>	= Total Cover																										
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. <i>Carpinus caroliniana</i>	30	Yes	FAC																									
2. <i>Ostrya virginiana</i>	5	No	FACU																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	<u>35</u>	= Total Cover																										
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Anemone canadensis</i>	30	Yes	FACW																									
2. <i>Carex intumescens</i>	20	Yes	FACW																									
3. <i>Impatiens capensis</i>	15	Yes	FACW																									
4. <i>Podophyllum peltatum</i>	7	No	FACU																									
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	<u>72</u>	= Total Cover																										
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____																												
2. _____																												
3. _____																												
4. _____																												
	<u>0</u>	= Total Cover																										
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-10\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.066133569 Long: -76.0956475698 Datum: WGS84  
 Soil Map Unit Name: VeB--Vergennes silty clay loam, 3 to 8 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u>)</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>40</u></td> <td style="text-align: center;">x 2 = <u>80</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>70</u></td> <td style="text-align: center;">x 4 = <u>280</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>110</u></td> <td style="text-align: center;">(A) <u>360</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.3</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>40</u>	x 2 = <u>80</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>70</u>	x 4 = <u>280</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>110</u>	(A) <u>360</u> (B)	Prevalence Index = B/A = <u>3.3</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>40</u>	x 2 = <u>80</u>																										
FAC species	<u>0</u>	x 3 = <u>0</u>																										
FACU species	<u>70</u>	x 4 = <u>280</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>110</u>	(A) <u>360</u> (B)																										
Prevalence Index = B/A = <u>3.3</u>																												
1. <i>Carya ovata</i>	15	Yes	FACU																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
15 = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u>)</b>																												
1. <i>Phalaris arundinacea</i>	40	Yes	FACW																									
2. <i>Dactylis glomerata</i>	30	Yes	FACU																									
3. <i>Taraxacum officinale</i>	10	No	FACU																									
4. <i>Trifolium pratense</i>	10	No	FACU																									
5. <i>Vicia americana</i>	5	No	FACU																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
95 = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u>)</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
0 = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North

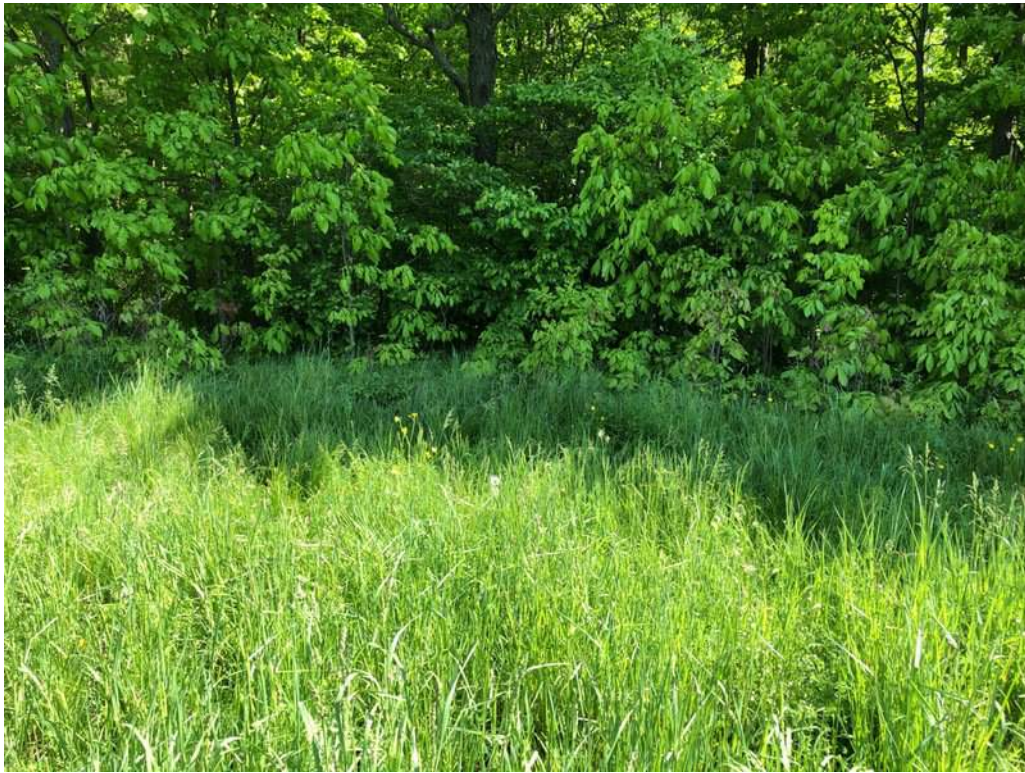


Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West





**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-10\_UPL-2  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.0660573775 Long: -76.0942579341 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertypes is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-10 UPL-2

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>28.6</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><b>Total % Cover of:</b></td> <td style="text-align:right;"><b>Multiply By:</b></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>35</u></td> <td>x 5 = <u>175</u></td> </tr> <tr> <td>Column Totals <u>185</u></td> <td>(A) <u>705</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </table>	<b>Total % Cover of:</b>	<b>Multiply By:</b>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>35</u>	x 5 = <u>175</u>	Column Totals <u>185</u>	(A) <u>705</u> (B)	Prevalence Index = B/A = <u>3.8</u>	
<b>Total % Cover of:</b>	<b>Multiply By:</b>																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
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Column Totals <u>185</u>	(A) <u>705</u> (B)																			
Prevalence Index = B/A = <u>3.8</u>																				
1. <i>Carya ovata</i>	50	Yes	FACU																	
2. <i>Quercus rubra</i>	25	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>75</u>	= Total Cover																		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. <i>Carpinus caroliniana</i>	30	Yes	FAC																	
2. <i>Ostrya virginiana</i>	10	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>40</u>	= Total Cover																		
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <i>Fragaria vesca</i>	35	Yes	UPL																	
2. <i>Anemone canadensis</i>	20	Yes	FACW																	
3. <i>Podophyllum peltatum</i>	15	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	<u>70</u>	= Total Cover																		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft</u> )																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
	<u>0</u>	= Total Cover																		
<b>Hydrophytic Vegetation Indicators:</b> ___ 1- Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is > 50% ___ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes ___ No <input checked="" type="checkbox"/>																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																				





Vegetation Photos





Soil Photos



Photo of Sample Plot  
North





Photo of Sample Plot  
East



Photo of Sample Plot  
South





Photo of Sample Plot  
West





VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-11\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 30%; text-align: center;">Multiply By:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>40</u></td> <td></td> <td style="text-align: center;">x 1 = <u>40</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>45</u></td> <td></td> <td style="text-align: center;">x 2 = <u>90</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>12</u></td> <td></td> <td style="text-align: center;">x 3 = <u>36</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>97</u></td> <td style="text-align: center;">(A)</td> <td style="text-align: center;"><u>166</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A = <u>1.7</u></td> </tr> </tbody> </table>		Total % Cover of:		Multiply By:	OBL species	<u>40</u>		x 1 = <u>40</u>	FACW species	<u>45</u>		x 2 = <u>90</u>	FAC species	<u>12</u>		x 3 = <u>36</u>	FACU species	<u>0</u>		x 4 = <u>0</u>	UPL species	<u>0</u>		x 5 = <u>0</u>	Column Totals	<u>97</u>	(A)	<u>166</u> (B)	Prevalence Index = B/A = <u>1.7</u>			
	Total % Cover of:		Multiply By:																																	
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FACU species	<u>0</u>		x 4 = <u>0</u>																																	
UPL species	<u>0</u>		x 5 = <u>0</u>																																	
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Prevalence Index = B/A = <u>1.7</u>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Herb Stratum (Plot size: 5 ft )</b>																																				
1. <i>Typha angustifolia</i>	40	Yes	OBL																																	
2. <i>Impatiens capensis</i>	25	Yes	FACW																																	
3. <i>Mentha arvensis</i>	20	Yes	FACW																																	
4. <i>Euthamia graminifolia</i>	12	No	FAC																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
<u>97</u> = Total Cover																																				
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
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<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																																				





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-11\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toe Local relief (concave, convex, none): Undulating Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0635747416 Long: -76.0925648735 Datum: WGS84  
 Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
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<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-11 UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>20</u></td> <td style="text-align: center;">x 3 = <u>60</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>75</u></td> <td style="text-align: center;">x 4 = <u>300</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>95</u></td> <td style="text-align: center;">(A) <u>360</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </tbody> </table> <b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>20</u>	x 3 = <u>60</u>	FACU species	<u>75</u>	x 4 = <u>300</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>95</u>	(A) <u>360</u> (B)	Prevalence Index = B/A = <u>3.8</u>		
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6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Galium mollugo</i>	40	Yes	FACU																									
2. <i>Solidago canadensis</i>	35	Yes	FACU																									
3. <i>Ranunculus acris</i>	20	Yes	FAC																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>95</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-12\_PEM-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 1 to 3  
 Subregion (LRR or MLRA): LRR R Lat: 44.0682413243 Long: -76.0893143714 Datum: WGS84  
 Soil Map Unit Name: KgA--Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-12
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-12\_PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">x 2 = <u>180</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;">(A) <u>180</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>90</u>	x 2 = <u>180</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>90</u>	(A) <u>180</u> (B)	Prevalence Index = B/A = <u>2</u>		
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
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6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	70	Yes	FACW																									
2. <i>Carex bromoides</i>	20	Yes	FACW																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
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1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																												
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																												





Vegetation Photos





Soil Photos



Photo of Sample Plot North





Photo of Sample Plot  
East



Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-04  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-12\_UPL-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2 to 5  
 Subregion (LRR or MLRA): LRR R Lat: 44.0681724251 Long: -76.0891285446 Datum: WGS84  
 Soil Map Unit Name: KgA-Kingsbury silty clay, 0 to 2 percent slopes NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID:	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Coverttype is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
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<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
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		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-12\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: 30 ft )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>25</u></td> <td style="text-align: center;">x 2 = <u>50</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>17</u></td> <td style="text-align: center;">x 3 = <u>51</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>65</u></td> <td style="text-align: center;">x 4 = <u>260</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>107</u></td> <td style="text-align: center;">(A) <u>361</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>3.4</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>25</u>	x 2 = <u>50</u>	FAC species	<u>17</u>	x 3 = <u>51</u>	FACU species	<u>65</u>	x 4 = <u>260</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>107</u>	(A) <u>361</u> (B)	Prevalence Index = B/A = <u>3.4</u>		
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3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: 15 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: 5 ft )</b>																												
1. <i>Poa pratensis</i>	30	Yes	FACU																									
2. <i>Phalaris arundinacea</i>	25	Yes	FACW																									
3. <i>Vicia americana</i>	20	No	FACU																									
4. <i>Ranunculus acris</i>	17	No	FAC																									
5. <i>Trifolium pratense</i>	15	No	FACU																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>107</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: 30 ft )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic  <b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)          																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05  
 Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-13\_PEM-1  
 Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0 to 1  
 Subregion (LRR or MLRA): LRR R Lat: 44.064529608 Long: -76.0891337414 Datum: WGS84  
 Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation  Soil  or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID:	W-NSD-13
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyping is PEM.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
(includes capillary fringe)		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>		
<b>Remarks:</b>		



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-13 PEM-1

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 20%;"></th> <th style="width: 30%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>95</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>95</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>10</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>30</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>105</u></td> <td>(A)</td> <td style="text-align: center;"><u>125</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A = <u>1.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>		<u>Multiply By:</u>	OBL species	<u>95</u>	x 1 =	<u>95</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>10</u>	x 3 =	<u>30</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals	<u>105</u>	(A)	<u>125</u> (B)	Prevalence Index = B/A = <u>1.2</u>			
	<u>Total % Cover of:</u>		<u>Multiply By:</u>																																	
OBL species	<u>95</u>	x 1 =	<u>95</u>																																	
FACW species	<u>0</u>	x 2 =	<u>0</u>																																	
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FACU species	<u>0</u>	x 4 =	<u>0</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals	<u>105</u>	(A)	<u>125</u> (B)																																	
Prevalence Index = B/A = <u>1.2</u>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																																				
1. <i>Carex lacustris</i>	75	Yes	OBL																																	
2. <i>Typha angustifolia</i>	20	No	OBL																																	
3. <i>Euthamia graminifolia</i>	10	No	FAC																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
<u>105</u> = Total Cover																																				
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
<u>0</u> = Total Cover																																				
<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																																				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>          																																				



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Riverside Solar City/County: Chaumont, Jefferson Sampling Date: 2020-June-05

Applicant/Owner: Geronimo State: NY Sampling Point: W-NSD-13\_UPL-1

Investigator(s): Nick DeJohn, Other, Ben Popham Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2 to 5

Subregion (LRR or MLRA): LRR R Lat: 44.0645210585 Long: -76.0892846157 Datum: WGS84

Soil Map Unit Name: Gv--Guffin clay NWI classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____	
<b>Remarks: (Explain alternative procedures here or in a separate report)</b>			
Covertyp is UPL.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>			
<b>Primary Indicators (minimum of one is required; check all that apply)</b>		<b>Secondary Indicators (minimum of two required)</b>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b>			
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____		
<b>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</b>			
<b>Remarks:</b>			



VEGETATION -- Use scientific names of plants.

Sampling Point: W-NSD-13\_UPL-1

	Absolute % Cover	Dominant Species?	Indicator Status																									
<b>Tree Stratum (Plot size: <u>30 ft</u> )</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)  <b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;"><u>Total % Cover of:</u></th> <th style="width: 25%; text-align: center;"><u>Multiply By:</u></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>35</u></td> <td style="text-align: center;">x 2 = <u>70</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>12</u></td> <td style="text-align: center;">x 3 = <u>36</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>55</u></td> <td style="text-align: center;">x 4 = <u>220</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals</td> <td style="text-align: center;"><u>102</u></td> <td style="text-align: center;">(A) <u>326</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Prevalence Index = B/A = <u>3.2</u></td> </tr> </tbody> </table>		<u>Total % Cover of:</u>	<u>Multiply By:</u>	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>35</u>	x 2 = <u>70</u>	FAC species	<u>12</u>	x 3 = <u>36</u>	FACU species	<u>55</u>	x 4 = <u>220</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals	<u>102</u>	(A) <u>326</u> (B)	Prevalence Index = B/A = <u>3.2</u>		
	<u>Total % Cover of:</u>	<u>Multiply By:</u>																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>35</u>	x 2 = <u>70</u>																										
FAC species	<u>12</u>	x 3 = <u>36</u>																										
FACU species	<u>55</u>	x 4 = <u>220</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals	<u>102</u>	(A) <u>326</u> (B)																										
Prevalence Index = B/A = <u>3.2</u>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
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4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
5. _____	_____	_____	_____																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Herb Stratum (Plot size: <u>5 ft</u> )</b>																												
1. <i>Phalaris arundinacea</i>	35	Yes	FACW																									
2. <i>Lotus tenuis</i>	25	Yes	FACU																									
3. <i>Galium mollugo</i>	20	No	FACU																									
4. <i>Ranunculus acris</i>	12	No	FAC																									
5. <i>Taraxacum officinale</i>	10	No	FACU																									
6. _____	_____	_____	_____																									
7. _____	_____	_____	_____																									
8. _____	_____	_____	_____																									
9. _____	_____	_____	_____																									
10. _____	_____	_____	_____																									
11. _____	_____	_____	_____																									
12. _____	_____	_____	_____																									
<u>102</u> = Total Cover																												
<b>Woody Vine Stratum (Plot size: <u>30 ft</u> )</b>																												
1. _____	_____	_____	_____																									
2. _____	_____	_____	_____																									
3. _____	_____	_____	_____																									
4. _____	_____	_____	_____																									
<u>0</u> = Total Cover																												
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1- Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																												
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																												
Remarks: (Include photo numbers here or on a separate sheet.)																												



Vegetation Photos



Soil Photos





Photo of Sample Plot  
North



Photo of Sample Plot  
East





Photo of Sample Plot  
South



Photo of Sample Plot  
West



## Stream Inventory Data Form

Project Name: <u>Riverside Solar</u> Project Number: _____ Map Sheet No.: _____ GPS Point No(s): _____ Associated Data Sheet No(s): _____	Observer Name: <u>BF/BR</u> Date: <u>6/3/2020</u> State/County: <u>NY/Jefferson</u> Weather: _____ Stream Location (address, nearest road, structure etc.) <u>Weaver Road, Chaumont NY</u>		
<b>Stream Information</b>			
Stream Name: <u>BF-SI</u> Perceptible Flow: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Direction of Flow: <u>NW</u> Perennial <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral <input type="checkbox"/>	Stream Width: <u>3</u> ft. Water Width <u>3</u> ft. Bank to Bank <u>3</u> ft. Bankfull Width: <u>3</u> ft.		
<b>Probed Stream Depth</b>	<b>Channel Substrate</b>	<b>Observed Water Quality</b>	
<input checked="" type="checkbox"/> 0-6" <input type="checkbox"/> 7-12" <input type="checkbox"/> 13-24" <input type="checkbox"/> 25-36" <input type="checkbox"/> >36"	<input type="checkbox"/> Shale <input type="checkbox"/> Bedrock <input type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Sand <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Organic	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Turbid <input type="checkbox"/> Very Turbid	
<b>Aquatic Habitat</b>	<b>Wildlife Observed (Species)</b>	<b>Observed Use</b>	
<input type="checkbox"/> Sand Bar <input type="checkbox"/> Sand/Gravel Beach Bar <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging <input checked="" type="checkbox"/> Trees/Shrubs <input type="checkbox"/> Cobble Riffles <input type="checkbox"/> Deep Ponds/Holes <input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Other _____	<input type="checkbox"/> Waterfowl _____ <input type="checkbox"/> Fish _____ <input type="checkbox"/> Turtles _____ <input checked="" type="checkbox"/> Frogs _____ <input type="checkbox"/> Invertebrates _____ <input type="checkbox"/> Salamanders _____ <input type="checkbox"/> Other: _____	<input type="checkbox"/> Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Boating <input type="checkbox"/> Other: _____	
<b>Left Bank* Height and Slope</b>		<b>Right Bank* Height and Slope</b>	
<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)		<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)	
* Direction when facing downstream			
<b>Bank Substrate</b>	<b>Erosion Potential</b>	<b>Meander</b>	<b>Gradient</b>
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Organic	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> High	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> High	<input type="checkbox"/> Gentle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Steep



<b>Stream Info. Continued</b>
Adjacent Community Type: <u>Shallow emergent marsh, Upland shrubland</u>
Dominant Vegetative Species: _____
Trees: Elm, common buckthorn
Shrubs: Elm, common buckthorn
Herbaceous: Fowl mannagrass
Estimated % of canopy closure over stream channel: <input type="checkbox"/> 0-25% <input type="checkbox"/> 26-50% <input checked="" type="checkbox"/> 51-75% <input type="checkbox"/> 76-100%
Presence of threatened/endangered species (fish, reptiles, or amphibians)? <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (identify) _____
<b>Regulatory Status</b> <input type="checkbox"/> State Protected <input checked="" type="checkbox"/> Corps Jurisdictional
Notes:  Stream BF-S1 starts at a bedrock outcropping and drains into Wetland BF-W5.
Sketch:

## Stream Inventory Data Form

Project Name: <u>Riverside Solar</u> Project Number: _____ Map Sheet No.: _____ GPS Point No(s): _____ Associated Data Sheet No(s): _____	Observer Name: <u>BF/BR</u> Date: <u>6/4/2020</u> State/County: <u>NY/Jefferson</u> Weather: _____ Stream Location (address, nearest road, structure etc.) <u>Case Road, Chaumont NY</u>		
<b>Stream Information</b>			
Stream Name: <u>BF-S2</u> Perceptible Flow: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Direction of Flow: <u>West</u> Perennial <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral <input type="checkbox"/>	Stream Width: <u>3-6</u> ft. Water Width <u>3</u> ft. Bank to Bank <u>3-6</u> ft. Bankfull Width: <u>3-6</u> ft.		
<b>Probed Stream Depth</b>	<b>Channel Substrate</b>	<b>Observed Water Quality</b>	
<input checked="" type="checkbox"/> 0-6" <input type="checkbox"/> 7-12" <input type="checkbox"/> 13-24" <input type="checkbox"/> 25-36" <input type="checkbox"/> >36"	<input type="checkbox"/> Shale <input checked="" type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Sand <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Organic	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Turbid <input type="checkbox"/> Very Turbid	
<b>Aquatic Habitat</b>	<b>Wildlife Observed (Species)</b>	<b>Observed Use</b>	
<input type="checkbox"/> Sand Bar <input type="checkbox"/> Sand/Gravel Beach Bar <input type="checkbox"/> Mud Bar <input checked="" type="checkbox"/> Overhanging <input checked="" type="checkbox"/> Trees/Shrubs <input type="checkbox"/> Cobble Riffles <input checked="" type="checkbox"/> Deep Ponds/Holes <input checked="" type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Other _____	<input type="checkbox"/> Waterfowl _____ <input type="checkbox"/> Fish _____ <input type="checkbox"/> Turtles _____ <input checked="" type="checkbox"/> Frogs _____ <input type="checkbox"/> Invertebrates _____ <input type="checkbox"/> Salamanders _____ <input type="checkbox"/> Other: _____	<input type="checkbox"/> Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Boating <input type="checkbox"/> Other: _____	
<b>Left Bank* Height and Slope</b>		<b>Right Bank* Height and Slope</b>	
<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)		<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)	
* Direction when facing downstream			
<b>Bank Substrate</b>	<b>Erosion Potential</b>	<b>Meander</b>	<b>Gradient</b>
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Organic	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> High	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> High	<input type="checkbox"/> Gentle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Steep

<b>Stream Info. Continued</b>
Adjacent Community Type: <u>Shallow emergent marsh, Upland shrubland</u>
Dominant Vegetative Species: _____
Trees: Elm, common buckthorn, hawthorne, black willow
Shrubs: Elm, common buckthorn, gray dogwood, black willow
Herbaceous: Jewelweed, bluejoint grass, tall buttercup, cattails, sensitive fern, thimbleweed
Estimated % of canopy closure over stream channel: <input type="checkbox"/> 0-25% <input checked="" type="checkbox"/> 26-50% <input type="checkbox"/> 51-75% <input type="checkbox"/> 76-100%
Presence of threatened/endangered species (fish, reptiles, or amphibians)? <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (identify) _____
<b>Regulatory Status</b> <input type="checkbox"/> State Protected <input checked="" type="checkbox"/> Corps Jurisdictional
Notes:  Stream BF-S2 starts as a narrow channel with shrub covered banks but then gets wider and meanders as it progresses to the west. Exposed bedrock is visible in several areas along the western portion of the stream. Stream BF-S2 also flows through and connects Wetlands BF-W9 and BF-W10.
Sketch:



## Stream Inventory Data Form

Project Name: <u>Riverside Solar</u> Project Number: _____ Map Sheet No.: _____ GPS Point No(s): _____ Associated Data Sheet No(s): _____	Observer Name: <u>BF/RS</u> Date: <u>9/23/2020</u> State/County: <u>NY/Jefferson</u> Weather: <u>Clear, 70 degrees</u> Stream Location (address, nearest road, structure etc.) <u>Guffins Bay Estate Road</u>		
<b>Stream Information</b>			
Stream Name: <u>BF-S-3</u> Perceptible Flow: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Direction of Flow: <u>SW</u> Perennial <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral <input type="checkbox"/>	Stream Width: <u>3</u> ft. Water Width <u>0</u> ft. Bank to Bank <u>4</u> ft. Bankfull Width: <u>4</u> ft.		
<b>Probed Stream Depth</b>	<b>Channel Substrate</b>	<b>Observed Water Quality</b>	
<input checked="" type="checkbox"/> 0-6" <input type="checkbox"/> 7-12" <input type="checkbox"/> 13-24" <input type="checkbox"/> 25-36" <input type="checkbox"/> >36"	<input type="checkbox"/> Shale <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Sand <input type="checkbox"/> Silt/Clay <input type="checkbox"/> Organic	<input type="checkbox"/> Clear <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Turbid <input type="checkbox"/> Very Turbid	
<b>Aquatic Habitat</b>	<b>Wildlife Observed (Species)</b>	<b>Observed Use</b>	
<input type="checkbox"/> Sand Bar <input type="checkbox"/> Sand/Gravel Beach Bar <input type="checkbox"/> Mud Bar <input type="checkbox"/> Overhanging <input type="checkbox"/> Trees/Shrubs <input type="checkbox"/> Cobble Riffles <input checked="" type="checkbox"/> Deep Ponds/Holes <input checked="" type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Other _____	<input type="checkbox"/> Waterfowl _____ <input type="checkbox"/> Fish _____ <input type="checkbox"/> Turtles _____ <input type="checkbox"/> Frogs _____ <input type="checkbox"/> Invertebrates _____ <input type="checkbox"/> Salamanders _____ <input type="checkbox"/> Other: _____	<input type="checkbox"/> Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming <input type="checkbox"/> Fishing <input checked="" type="checkbox"/> Drainage <input type="checkbox"/> Boating <input type="checkbox"/> Other: _____	
<b>Left Bank* Height and Slope</b>	<b>Right Bank* Height and Slope</b>		
<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)	<input checked="" type="checkbox"/> 0-3' <input type="checkbox"/> 0-20% (0-11°) <input type="checkbox"/> 3-6' <input type="checkbox"/> 21-50% (12-27°) <input type="checkbox"/> 6-+ <input checked="" type="checkbox"/> 51-100% (28-45°)		
* Direction when facing downstream			
<b>Bank Substrate</b>	<b>Erosion Potential</b>	<b>Meander</b>	<b>Gradient</b>
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Organic	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Gentle <input type="checkbox"/> Moderate <input type="checkbox"/> Steep

<b>Stream Info. Continued</b>
Adjacent Community Type: <u>Successional shubland, row crops, shallow emergent marsh</u>
Dominant Vegetative Species: _____
Trees: _____
Shrubs: Gray dogwood, common buckthorn
Herbaceous: Soft stem bulrush, soft rush, panicle white aster, Joe-Pye weed, American burr-reed
Estimated % of canopy closure over stream channel: <input checked="" type="checkbox"/> 0-25% <input type="checkbox"/> 26-50% <input type="checkbox"/> 51-75% <input type="checkbox"/> 76-100%
Presence of threatened/endangered species (fish, reptiles, or amphibians)? <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (identify) _____
<b>Regulatory Status</b> <input type="checkbox"/> State Protected <input checked="" type="checkbox"/> Corps Jurisdictional
Notes:  Stream BF-S3 is a mapped NWI R5UBH intermittent stream flowing south west and connecting to Wetland BF-W-11.
Sketch:







# Stream Inventory Data Form

Stream Delineation ID \_\_\_\_\_

Adjacent Community Type

Percent Cover

Dominant Species

Trees \_\_\_\_\_

Shrubs \_\_\_\_\_

Herbaceous \_\_\_\_\_

Woody Vines \_\_\_\_\_

Bare Soil/Rock \_\_\_\_\_

Impervious \_\_\_\_\_

Type \_\_\_\_\_

Type \_\_\_\_\_

Observed Fauna

Waterfowl

Fish

Salamanders

Mink

Other \_\_\_\_\_

Snakes

Frogs

Beaver

Otter \_\_\_\_\_

Turtles

Toads

Muskrat

Invertebrates \_\_\_\_\_

Presence of Rare, Threatened, or Endangered Species

No

Yes

*Species & Evidence* \_\_\_\_\_

Undetermined

Notes (include weather, site access issues, culverts, etc.)

Sketch (Optional)



## Stream Inventory Data Form

Project Name _____		Date _____									
Project Number _____		Evaluated By _____									
Address _____											
USGS Quadrangle(s): _____											
Stream Delineation ID _____		Stream Name _____									
Stream Location _____											
(e.g. nearest road, structure) _____											
<u>Presumed Regulatory Authority</u>											
<input type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____									
<u>Stream Class</u>	<u>Observed Hydrology</u>	<u>Width (ft.) across Existing Water</u>									
<input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	<i>Flow</i> <input type="checkbox"/> Dry <input type="checkbox"/> Low <input type="checkbox"/> Moderate <i>Stage</i> <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction _____ Average Depth _____	<input type="checkbox"/> Yes, Measure Bankfull Width (ft.) _____ <input type="checkbox"/> No, Measure Top of Bank Width (ft.) _____ Width (ft.) across Ordinary High Water Mark* _____ <u>*Ordinary High Water Mark Indicators</u>									
<u>Streambed Substrate</u>	<u>Channel Gradient</u>	<input type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition									
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Silt <input type="checkbox"/> Clay <input type="checkbox"/> Other _____	<input type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep										
<u>Observed Use</u>		<u>Water Quality</u>									
<input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid Comments _____									
<u>Bank Slope</u>	<u>Left*</u>	<u>Right*</u>	<u>Bank Erosion Potential</u>								
0 - 8% (0 - 5°) Nearly Level - Gently Sloping 8 - 15% (5 - 9°) Moderately Sloping 15 - 25% (9 - 14°) Steeply Sloping 25 - 35% (14 - 20°) Steep >35% (>20°) Very Steep	_____	_____	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Left*</td> <td style="width: 50%; text-align: center;">Right*</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">_____</td> </tr> <tr> <td style="text-align: center;">Moderate</td> <td style="text-align: center;">_____</td> </tr> <tr> <td style="text-align: center;">High</td> <td style="text-align: center;">_____</td> </tr> </table>	Left*	Right*	Low	_____	Moderate	_____	High	_____
Left*	Right*										
Low	_____										
Moderate	_____										
High	_____										
<u>Bank Substrate</u>	<u>Aquatic Habitat</u>		<u>Estimated Canopy Closure</u>								
<input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____	<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____		<input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%								
Comments _____											



# Stream Inventory Data Form

Stream Delineation ID

<u>Adjacent Community Type</u>				
<u>Percent Cover</u>	<u>Dominant Species</u>			
Trees _____	_____			
Shrubs _____	_____			
Herbaceous _____	_____			
Woody Vines _____	_____			
Bare Soil/Rock _____	<i>Type</i> _____			
Impervious _____	<i>Type</i> _____			
<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other _____
<input type="checkbox"/> Snakes	<input type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	_____
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	_____
<u>Presence of Rare, Threatened, or Endangered Species</u>				
<input type="checkbox"/> No	<input type="checkbox"/> Yes	<i>Species &amp; Evidence</i> _____		
<input type="checkbox"/> Undetermined				
<u>Notes (include weather, site access issues, culverts, etc.)</u>				
<b>Sketch (Optional)</b>				







# Stream Inventory Data Form

Stream Delineation ID \_\_\_\_\_

Adjacent Community Type

Percent Cover

Dominant Species

Trees \_\_\_\_\_

Shrubs \_\_\_\_\_

Herbaceous \_\_\_\_\_

Woody Vines \_\_\_\_\_

Bare Soil/Rock \_\_\_\_\_

Impervious \_\_\_\_\_

Type \_\_\_\_\_

Type \_\_\_\_\_

Observed Fauna

Waterfowl

Fish

Salamanders

Mink

Other \_\_\_\_\_

Snakes

Frogs

Beaver

Otter

Turtles

Toads

Muskrat

Invertebrates \_\_\_\_\_

Presence of Rare, Threatened, or Endangered Species

No

Yes

*Species & Evidence* \_\_\_\_\_

Undetermined

Notes (include weather, site access issues, culverts, etc.)

Sketch (Optional)



# Stream Inventory Data Form

Project Name _____		Date _____	
Project Number _____		Evaluated By _____	
Address _____			
USGS Quadrangle(s): _____			
Stream Delineation ID _____		Stream Name _____	
Stream Location _____ (e.g. nearest road, structure)			
<u>Presumed Regulatory Authority</u>			
<input type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____	
<u>Stream Class</u>	<u>Observed Hydrology</u>	Width (ft.) across Existing Water _____	
<input type="checkbox"/> Perennial	Flow <input type="checkbox"/> Dry <input type="checkbox"/> Low <input type="checkbox"/> Moderate	Flood Plain <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) _____	
<input type="checkbox"/> Intermittent	Stage <input type="checkbox"/> High <input type="checkbox"/> Flood	Present? <input type="checkbox"/> No, Measure Top of Bank Width (ft.) _____	
<input type="checkbox"/> Ephemeral	Flow Direction _____	Width (ft.) across Ordinary High Water Mark* _____	
<input type="checkbox"/> Undetermined	Average Depth _____	<u>*Ordinary High Water Mark Indicators</u>	
<u>Streambed Substrate</u>	<u>Channel Gradient</u>	<input type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Silt <input type="checkbox"/> Clay <input type="checkbox"/> Other _____	<input type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep		
<u>Observed Use</u>		<u>Water Quality</u>	
<input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid Comments _____	
<u>Bank Slope</u>		<u>Bank Height (ft.)</u>	<u>Bank Erosion Potential</u>
0 - 8% (0 - 5°) Nearly Level - Gently Sloping 8 - 15% (5 - 9°) Moderately Sloping 15 - 25% (9 - 14°) Steeply Sloping 25 - 35% (14 - 20°) Steep >35% (>20°) Very Steep		Left* _____ Right* _____  * Direction when facing downstream	Left* _____ Right* _____ Low _____ Moderate _____ High _____
<u>Bank Substrate</u>		<u>Aquatic Habitat</u>	<u>Estimated Canopy Closure</u>
<input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____		<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____	<input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%
Comments _____			





# Stream Inventory Data Form

Stream Delineation ID \_\_\_\_\_

Adjacent Community Type

Percent Cover

Dominant Species

Trees \_\_\_\_\_

Shrubs \_\_\_\_\_

Herbaceous \_\_\_\_\_

Woody Vines \_\_\_\_\_

Bare Soil/Rock \_\_\_\_\_

Impervious \_\_\_\_\_

Type \_\_\_\_\_

Type \_\_\_\_\_

Observed Fauna

Waterfowl

Fish

Salamanders

Mink

Other \_\_\_\_\_

Snakes

Frogs

Beaver

Otter \_\_\_\_\_

Turtles

Toads

Muskrat

Invertebrates \_\_\_\_\_

Presence of Rare, Threatened, or Endangered Species

No

Yes

*Species & Evidence* \_\_\_\_\_

Undetermined

Notes (include weather, site access issues, culverts, etc.)

Sketch (Optional)





# Stream Inventory Data Form

Stream Delineation ID \_\_\_\_\_

Adjacent Community Type

Percent Cover

Dominant Species

Trees \_\_\_\_\_

Shrubs \_\_\_\_\_

Herbaceous \_\_\_\_\_

Woody Vines \_\_\_\_\_

Bare Soil/Rock \_\_\_\_\_

Impervious \_\_\_\_\_

Type \_\_\_\_\_

Type \_\_\_\_\_

Observed Fauna

Waterfowl

Fish

Salamanders

Mink

Other \_\_\_\_\_

Snakes

Frogs

Beaver

Otter \_\_\_\_\_

Turtles

Toads

Muskrat

Invertebrates \_\_\_\_\_

Presence of Rare, Threatened, or Endangered Species

No

Yes

*Species & Evidence* \_\_\_\_\_

Undetermined

Notes (include weather, site access issues, culverts, etc.)

Sketch (Optional)





## Stream Inventory Data Form

Project Name _____		Date _____	
Project Number _____		Evaluated By _____	
Address _____			
USGS Quadrangle(s): _____			
Stream Delineation ID _____		Stream Name _____	
Stream Location _____			
(e.g. nearest road, structure) _____			
<u>Presumed Regulatory Authority</u>			
<input type="checkbox"/> U.S. Army Corps <input type="checkbox"/> State		Rationale: _____	
<u>Stream Class</u>	<u>Observed Hydrology</u>	<u>Width (ft.) across Existing Water</u>	
<input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Undetermined	Flow <input type="checkbox"/> Dry <input type="checkbox"/> Low <input type="checkbox"/> Moderate Stage <input type="checkbox"/> High <input type="checkbox"/> Flood Flow Direction _____ Average Depth _____	Flood Plain Present? <input type="checkbox"/> Yes, Measure Bankfull Width (ft.) _____ <input type="checkbox"/> No, Measure Top of Bank Width (ft.) _____ Width (ft.) across Ordinary High Water Mark* _____ <u>*Ordinary High Water Mark Indicators</u>	
<u>Streambed Substrate</u>	<u>Channel Gradient</u>	<input type="checkbox"/> Natural Line Impressed on Bank <input type="checkbox"/> Scour <input type="checkbox"/> Wrack <input type="checkbox"/> Matted, bent, or Absent Vegetation <input type="checkbox"/> Water Staining <input type="checkbox"/> Soil Character Change <input type="checkbox"/> Shelving <input type="checkbox"/> Terrestrial Vegetation Destroyed <input type="checkbox"/> Bed & Banks <input type="checkbox"/> Disturbed/Washed-away Leaf Litter <input type="checkbox"/> Litter & Debris <input type="checkbox"/> Plant Community Change <input type="checkbox"/> Sediment Sorting <input type="checkbox"/> Multiple Observed Flow Events <input type="checkbox"/> Deposition	
<input type="checkbox"/> Shale <input type="checkbox"/> Sand <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic <input type="checkbox"/> Boulders <input type="checkbox"/> Cobble/Gravel <input type="checkbox"/> Silt <input type="checkbox"/> Clay <input type="checkbox"/> Other _____	<input type="checkbox"/> <2% (<1°) Gentle <input type="checkbox"/> 2 - 4% (1 - 2°) Moderate <input type="checkbox"/> 4 - 10% (2 - 6°) Steep <input type="checkbox"/> >10% (>6°) Very Steep		
<u>Observed Use</u>		<u>Water Quality</u>	
<input type="checkbox"/> Boating <input type="checkbox"/> Shellfishing <input type="checkbox"/> Swimming <input type="checkbox"/> Irrigation <input type="checkbox"/> Fishing <input type="checkbox"/> Drainage <input type="checkbox"/> Drinking <input type="checkbox"/> Aquaculture <input type="checkbox"/> Other _____		<input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Very Turbid Comments _____	
<u>Bank Slope</u>	<u>Left*</u>	<u>Right*</u>	<u>Bank Erosion Potential</u>
0 - 8% (0 - 5°) Nearly Level - Gently Sloping	_____	_____	Left*    Right*
8 - 15% (5 - 9°) Moderately Sloping	_____	_____	Low    _____
15 - 25% (9 - 14°) Steeply Sloping	_____	_____	Moderate    _____
25 - 35% (14 - 20°) Steep	_____	_____	High    _____
>35% (>20°) Very Steep	_____	_____	
<u>Bank Substrate</u>		<u>Aquatic Habitat</u>	<u>Estimated Canopy Closure</u>
<input type="checkbox"/> Shale <input type="checkbox"/> Gravel <input type="checkbox"/> Silt/Clay <input type="checkbox"/> Cobble <input type="checkbox"/> Bedrock <input type="checkbox"/> Sand <input type="checkbox"/> Riprap <input type="checkbox"/> Organic <input type="checkbox"/> Other _____		<input type="checkbox"/> Aquatic Vegetation <input type="checkbox"/> Mud Bar <input type="checkbox"/> Overhanging Vegetation <input type="checkbox"/> Sand Bar <input type="checkbox"/> Undercut Banks <input type="checkbox"/> Riffle - Pool <input type="checkbox"/> Gravel Bar <input type="checkbox"/> Plunge Pools <input type="checkbox"/> Other _____	<input type="checkbox"/> 0 - 10% <input type="checkbox"/> 50 - 60% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 60 - 70% <input type="checkbox"/> 20 - 30% <input type="checkbox"/> 70 - 80% <input type="checkbox"/> 30 - 40% <input type="checkbox"/> 80 - 90% <input type="checkbox"/> 40 - 50% <input type="checkbox"/> 90 - 100%
Comments _____			



# Stream Inventory Data Form

Stream Delineation ID

<u>Adjacent Community Type</u>				
<u>Percent Cover</u>	<u>Dominant Species</u>			
Trees _____	_____			
Shrubs _____	_____			
Herbaceous _____	_____			
Woody Vines _____	_____			
Bare Soil/Rock _____	<i>Type</i> _____			
Impervious _____	<i>Type</i> _____			
<u>Observed Fauna</u>				
<input type="checkbox"/> Waterfowl	<input type="checkbox"/> Fish	<input type="checkbox"/> Salamanders	<input type="checkbox"/> Mink	<input type="checkbox"/> Other _____
<input type="checkbox"/> Snakes	<input type="checkbox"/> Frogs	<input type="checkbox"/> Beaver	<input type="checkbox"/> Otter	_____
<input type="checkbox"/> Turtles	<input type="checkbox"/> Toads	<input type="checkbox"/> Muskrat	<input type="checkbox"/> Invertebrates	_____
<u>Presence of Rare, Threatened, or Endangered Species</u>				
<input type="checkbox"/> No	<input type="checkbox"/> Yes	<i>Species &amp; Evidence</i> _____		
<input type="checkbox"/> Undetermined				
<u>Notes (include weather, site access issues, culverts, etc.)</u>				
Sketch (Optional)				