

Appendix 12-1

Wildlife Site Characterization Report



Wildlife Site Characterization Report

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Brookside Solar Project

Prepared For:

AES

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ACRONYMS AND ABBREVIATIONS

Notation	Definition
Brookside Solar	Brookside Solar, LLC
EAF	Environmental Assessment Form
ECL	Environmental Conservation Law
ERM	Environmental Resource Mapper
ESA	Endangered Species Act
HUC	Hydrologic Unit Code
IBA	Important Bird Area
IPaC	Information for Planning and Consultation
MBTA	Migratory Bird Treaty Act
MRLC	Multi-Resolution Land Characteristics
NLCD	National Land Cover Database
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
NWR	National Wildlife Refuge
NYBBA	New York Breeding Bird Atlas
NYCRR	New York Codes, Rules, and Regulations
NYNHP	New York Natural Heritage Program
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
ORES	Office of Renewable Energy Siting
PADUS	Protected Areas Database of the United States
PFO	Palustrine forested
POI	point of interconnection
Project	Brookside Solar Project
Project Area	Brookside Solar Project totaling 1,432 acres of leased, private land
SGCN	Species of Greatest Conservation Need
SOSC	Species of Special Concern
SPCN	Species of Potential Conservation Need
SWAP	State Wildlife Action Plan
U.S.	United States
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WMA	Wildlife Management Area
WRP	Wetlands Reserve Program
WSCR	Wildlife Site Characterization Report

Table 1-1. Required Information Locations in Wildlife Site Characterization Report

Reg Stipulation	Documentation	Located
900-1.3 (g)(1)	At the earliest point possible in the applicant's preliminary project planning, the applicant shall conduct a wildlife site characterization summarizing existing public information on bird, bat, and other species, including, but not limited to, New York's Environmental Assessment Form Mapper, New York Natural Heritage Program, United States Fish and Wildlife Service Information for Planning and Consultation and ECOS databases, New York's Environmental Resource Mapper, Nature Explorer, and Biodiversity and Wind Siting Mapping Tool, eBird, Audubon Christmas Bird Counts, United States Geological Survey breeding bird surveys, the current New York Breeding Bird Atlas III program, New York State Ornithological Association, local birding organizations, Bat Conservation International's database on bat species ranges, New York State Department of Conservation bat information.	Section 2.0; Appendix B; Appendix C
900-1.3 (g)(1)(i)	NYS threatened or endangered species or Species of Special Concern documented at the proposed facility, access roads, interconnections, connecting lines, from available data sources. A subset of New York State threatened or endangered species identified within the last five (5) years shall be provided.	Section 3.7; Appendix B
900-1.3 (g)(1)(ii)	For each listed animal species documented from available data sources, provide an evaluation of current habitat suitability for those species at the project site.	Sections 3.1 through 3.6
900-1.3 (g)(1)(iii)	Landscape features and resources of potential concern within five (5) miles of the facility that may function to funnel or concentrate birds and bats, with a focus on NYS threatened or endangered species, during migration or for feeding, breeding, wintering, or roosting activities, such as national wildlife refuges, wildlife management areas, grassland focus areas, core forest blocks (contiguous areas of one hundred fifty (150) acres or larger), Audubon Important Bird Areas, high elevation mountaintops, prominent ridgelines, forested riparian areas, known hibernacula, records of caves and mines, or other significant habitat areas.	Sections 3.1 through 3.6
900-1.3 (g)(1)(iv)	Geographical, topographical, and other physical features within five (5) miles of the facility, interconnections, connecting lines, and access roads.	Section 3.3
900-1.3 (g)(1)(v)	National Wetlands Inventory and NYSDEC mapped wetlands, streams, waterbodies, state forests, parks, land use, and other available information relevant to siting the facility.	Section 3.2; Appendix A
900-1.3 (g)(1)(vi)	A review of National Audubon Society climate change modeling for listed bird species documented in the wildlife site characterization, and review of other climate change models relevant to listed bird species and other wildlife species documented at the facility site, as available.	Section 3.8

1.0 Introduction

1.1 Project Description

Brookside Solar, LLC (Brookside Solar) proposes the construction of the Brookside Solar Project (Project), an approximate 100-megawatt photovoltaic solar energy generation facility in the Towns of Burke and Chateaugay, Franklin County, New York. The Project will be sited and developed on approximately 1,432 acres of leased, private land owned by a number of participating landowners (Project Area) (Figure 1, Appendix A). The Project Area consists of 28 leased parcels located approximately 1.5 miles west of the Village of Chateaugay. Project facilities will include commercial-scale solar arrays, access roads, buried and/or overhead electric collection lines, and electrical interconnection facilities (i.e., a collection substation and point of interconnection switchyard). The proposed collection substation and point of interconnection switchyard will be located on leased land within the Project Area.

1.2 Objectives

TRC was contracted by Brookside Solar to characterize wildlife use and areas of critical environmental or regulatory concern that could impact Project development. The purpose of the Wildlife Site Characterization Report (WSCR) is to support the development of an application to the New York State (NYS) Office of Renewable Energy Siting (ORES) to construct the Project under Section 94-c of New York Executive Law (New York Codes, Rules and Regulations (NYCRR) Chapter XVIII, Title 19 Part 900, subparts 900-1 through 900-14). The WSCR is intended to meet the requirements of §900-1.3 (g)(1) of that regulation. A 5-mile buffer was applied to the Project Area, as specified by resource in §900-1.3 (g)(1) and is herein referred to as the “5-mile Study Area” (Figure 2, Appendix A). The following information is provided to:

- Characterize wildlife species with the potential to occur within the Project Area by summarizing existing public information on bird, bat, and other species (Wildlife Inventory Tables, Appendix B).
- With respect to NYS threatened or endangered species or Species of Special Concern (SOSC), this wildlife site characterization includes an evaluation of the following within the Project Area:
 - Species observations within the last five years and associated habitat suitability;
 - NWI-identified and NYSDEC-mapped wetlands and waterbodies;
 - Land use and vegetation cover types; and
 - A review of National Audubon Society climate change modeling for listed bird species documented within the Project Area and a review of other climate change models relevant to listed bird species and other wildlife species documented within the Project Area.
- With respect to NYS threatened or endangered species or SOSC, this wildlife site characterization includes an evaluation of the following within the Project Area and 5-mile Study Area:
 - Geographical, topographical, and other physical features including prominent ridgelines and high elevation mountaintops; and

- Landscape features, resources of potential concern, and significant natural communities including Wildlife Management Areas (WMAs), National Wildlife Refuges (NWRs), core forest blocks, Audubon Important Bird Areas (IBAs), known hibernacula, wildlife concentration areas, grassland focus areas, forested riparian areas, and potential roosting habitat.

2.0 Methods

TRC, on behalf of Brookside Solar, conducted site visits and desktop analyses of the Project Area and desktop analyses of the 5-mile Study Area to characterize wildlife species and habitats potentially affected by Project development. The results of the desktop analyses and site visits are presented in Section 3.0. The WSCR is being prepared concurrently with ongoing on-site surveys as the Project transitions from the requirements under Article 10 to those required under §900-1.3(g). As such, both desktop analyses and field results are presented in this WSCR.

The publicly available resources used in the desktop analyses, as identified in the Section 94-c regulations, and listed as follows:

- Google Earth Pro;
- Multi-Resolution Land Characteristics (MRLC) Consortium National Land Cover Database (NLCD);
- New York Ecoregion Maps;
- New York Natural Heritage Program (NYNHP);
- New York State Department of Environmental Conservation (NYSDEC) Environmental Assessment Form (EAF) Mapper;
- New York State Environmental Resource Mapper (ERM);
- NYSDEC Animal Species Databases;
- NYSDEC Atlases for Reptiles, Amphibians, and Fish;
- NYSDEC State Wildlife Action Plan;
- NYSDEC Grassland Focus Areas mapping;
- NYSDEC Freshwater Wetland mapping;
- NYSDEC Nature Explorer;
- NYSDEC WMAs mapping;
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Grassland Focus Areas;
- USDA Ecoregion Maps;
- U.S. Geological Survey (USGS) Protected Areas Database of the United States (PADUS);
- USGS Burke, Chateaugay, Churbusco, Chasm Falls, and Brainardville 7.5-minute quadrangles;
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping;
- USFWS NWRs mapping;
- USFWS Information for Planning and Consultation (IPaC) report;
- USFWS Northern long-eared bat hibernacula and maternity roost tree locations;
- Bat Conservation International's database;
- New York Breeding Bird Atlas (NYBBA);
- Audubon IBAs;

-
- National Audubon Society ‘Survival By Degrees’ climate change model;
 - Journal of Fish and Wildlife Management;
 - USGS Breeding Bird Survey;
 - eBird Database; and
 - New York State Ornithological Association.

Bird, bat, and other species occurrences within the 5-mile Study Area, as determined upon review of the aforementioned resources, are provided as a series of wildlife inventory tables in Appendix B. Agency consultation and species review records with the NYNHP; NYSDEC EAF, ERM, and Nature Explorer; and USFWS are provided in Appendix C.

In addition to the sources utilized during the desktop review, field surveys were conducted within the Project Area for grassland breeding birds, winter raptor use, and wetland and waterbodies (TRC 2020a,b; TRC 2021). Although not required by Section 94-c regulations for the WSCR, these surveys were conducted in anticipation of a request from the NYSDEC Region 5 Office. Avian surveys were conducted following the *NYSDEC Draft Survey Protocol for State-listed Breeding Grassland Bird Species* and *NYSDEC Draft Survey Protocol for State-listed Wintering Raptor Species*. Surveys were conducted from late May through July of 2020 and December 6, 2019 to March 30, 2020, respectively. Survey results have been submitted to NYSDEC under separate cover (August 2020 and July 2020, respectively). Survey results specific to NYS-listed species documented within the Project Area are summarized in this WSCR.

Wetland and waterbody delineations were performed in accordance with criteria set forth in the 1987 *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the 2012 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (United States Army Corps of Engineers [USACE] 2012).

Information from these surveys is being used to inform facility design which will, once completed, be submitted to the ORES and NYSDEC as part of ongoing Section 94-c pre-application consultation.

3.0 Results

3.1 Land Use and Vegetation Cover

Agriculture, consisting of planted hay, pasture lands, and cultivated crops, is the primary land use within the Project Area (approximately 75 percent). A patchwork of deciduous, evergreen, and mixed forest occur throughout the Project Area, totaling approximately 19 percent of the Project Area. Forested wetlands and emergent herbaceous wetlands are present as a minor occurrence, comprising approximately 3 percent of the Project Area. In addition, shrubland and grassland/herbaceous vegetation cover types are present as a minor occurrence, comprising approximately less than 1 percent of the Project Area. Developed land use, including low, moderate, and high intensity use, and open space, comprise approximately 2 percent of the Project Area (MRLC Consortium 2016). Developed uses observed via aerial imagery include existing road and transmission line rights-of-way, residential and commercial developments, and wind turbines. Several farm buildings and/or rural residences are located adjacent to County Road 23 and State Route 11 (US-11, Military Turnpike). Table 3-1 summarizes land use and vegetation cover types within the Project Area. Figure 3 (Appendix A) illustrates land use and vegetation cover types within the Project Area.

Table 3-1. Land Use and Vegetation Cover Types Identified within the Project Area

Land Use/Vegetation Cover Type	Acres within Project Area	Percentage of Project Area
Barren Land	0.0	0.0%
Cultivated Crops	259.1	18.1%
Deciduous Forest	153.9	10.7%
Developed, High Intensity	0.2	0.0%
Developed, Low Intensity	1.8	0.1%
Developed, Medium Intensity	0.2	0.0%
Developed, Open Space	23.4	1.6%
Emergent Herbaceous Wetlands	2.9	0.2%
Evergreen Forest	17.8	1.2%
Grassland/Herbaceous	2.9	0.2%
Mixed Forest	103.6	7.2%
Open Water	0.0	0.0%
Pasture/Hay	820.4	57.3%
Shrub/Scrub	6.9	0.5%
Unclassified	0.0	0.0%
Woody Wetlands	38.9	2.7%
Total	1,432.0	100.0%

Source: MRLC Consortium 2016.

3.2 Wetlands and Waterbodies

The Project Area is located within the Chateaugay English sub-basin (Hydrologic Unit Code [HUC] 04150308), with the majority of parcels located in the Allen Brook-Chateaugay River sub-watershed (HUC 041503080204) and portions of the easternmost parcels located within the

Bailey Brook-Chateaugay River sub-watershed (HUC 041506080104) (U.S. Environmental Protection Agency [USEPA] 2017).

The NYSDEC classifies watersheds more generally within the State of New York. Unlike mapping efforts outlined by the USEPA 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 St. Lawrence River Watershed (NYSDEC 2014).

According to the initial desktop analysis, approximately 38.5 acres of NWI-identified wetlands were identified within the Project Area (USFWS 2020a; Figure 4, Appendix A). The USFWS NWI is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of nationwide wetlands (where mapped). NWI wetlands were used as a reference guide to conduct a more informed site survey in the demarcation or delineation of wetlands and streams, which could be subject to federal and state regulation. No NYSDEC-regulated wetlands were identified by the NYSDEC within the Project Area (NYSDEC 2021a). Based on the results of a wetland delineation survey, approximately 70.0 acres of wetlands were delineated within the Project Area, including 25 palustrine emergent wetlands, 9 palustrine scrub-shrub wetlands, 8 palustrine forested (PFO) wetlands, and 1 palustrine unconsolidated bottom wetland (TRC 2021). Table 3-2 identifies the delineated wetlands within the Project Area.

According to the NYSDEC, seven NYSDEC-designated streams (totaling approximately 5.6 linear miles) were identified within the Project Area (NYSDEC 2021a). One named waterbody, Allen Brook, occurs within the Project Area. The Chateaugay River is located at its closest point approximately 35 feet immediately north of the Project Area and runs parallel to the northeastern boundary of the Project Area. In addition, the Marble River is located approximately 1.5 miles northeast and east of the Project Area. NYSDEC-designated streams within the Project Area are listed in Table 3-3 and depicted in Figure 5 (Appendix A).

Based on the results of a waterbody delineation survey, a total of 25 waterbodies (totaling approximately 4.9 linear miles) were identified within the Project Area, including 7 perennial waterbodies, 14 intermittent waterbodies, and 4 ephemeral waterbodies (TRC 2021). Table 3-3 identifies the delineated waterbodies within the Project Area.

Identified wetlands and waterbodies may be considered jurisdictional and subject to regulation pursuant to NYSDEC 900.1-3 (e) and (f), respectively.

Table 3-2. Delineated Wetlands within the Project Area

Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Survey Area	Stream Present Within Wetland	Linear Feet of Stream Within Wetland	Presumed Jurisdiction	Latitude of Centroid	Longitude of Centroid
PEM	PSS	PFO	PUB						
0.1	-	-	-	0.1	-	-	NON-JURISDICTIONAL	44.9296	-74.1345
5.5	4.2	-	-	9.7	S-JJB-2	616	USACE	44.9234	-74.1380
0.3	-	-	-	0.3	-	-	NON-JURISDICTIONAL	44.9274	-74.1374
3.0	-	-	-	3.0	-	-	USACE	44.9306	-74.1305
-	2.7	-	-	2.7	-	-	NON-JURISDICTIONAL	44.9273	-74.1271
-	-	-	0.2	0.2	-	-	NON-JURISDICTIONAL	44.9247	-74.1259
-	0.2	-	-	0.22	-	-	NON-JURISDICTIONAL	44.9288	-74.1251
-	0.2	1.3	-	1.5	-	-	NON-JURISDICTIONAL	44.9270	-74.1241
<0.1	-	-	-	<0.1	-	-	USACE	44.9360	-74.1285
5.0	-	-	-	5.0	S-JJB-4 S-WCR-2	97 437	USACE	44.9334	-74.1253
-	0.2	-	-	0.2	S-JJB-6	156	USACE	44.9180	-74.1313
1.0	-	-	-	1.0	S-JJB-9	161	USACE	44.9157	-74.1353
0.3	-	-	-	0.3	-	-	USACE	44.9171	-74.1353
2.5	10.2	-	-	12.6	S-JJB-11 S-JJB-13 S-JJB-14	1000 15 1451	USACE	44.9198	-74.1357

Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Survey Area	Stream Present Within Wetland	Linear Feet of Stream Within Wetland	Presumed Jurisdiction	Latitude of Centroid	Longitude of Centroid
PEM	PSS	PFO	PUB						
					S-JJB-2	564			
0.3	-	-	-	0.3	S-JJB-12	30	USACE	44.9170	-74.1332
0.3	-	-	-	0.3	-	-	NON-JURISDICTIONAL	44.9167	-74.1216
6.0	-	-	-	6.0	-	-	NON-JURISDICTIONAL	44.9177	-74.1168
0.1	-	-	-	0.1	-	-	USACE	44.9202	-74.1156
0.3	-	-	-	0.3	-	-	USACE	44.9225	-74.1134
0.2	-	-	-	0.2	S-JJB-17	29	USACE	44.9200	-74.1056
0.6	-	-	-	0.6	-	-	USACE	44.9195	-74.1051
0.6	-	-	-	0.6	-	-	USACE	44.9214	-74.1349
-	1.7	-	-	1.7	S-JJB-16	26	USACE	44.9226	-74.1248
1.6	-	-	-	1.6	-	-	USACE	44.9209	-74.1012
0.1	-	0.2	-	0.3	-	-	USACE	44.9202	-74.1025
4.2	-	-	-	4.2	-	-	USACE	44.9234	-74.1286
0.1	-	-	-	0.1	-	-	NON-JURISDICTIONAL	44.9250	-74.1294
0.9	-	-	-	0.9	-	-	NON-JURISDICTIONAL	44.9353	-74.1314
-	0.1	-	-	0.1	-	-	NON-JURISDICTIONAL	44.9156	-74.1343
-	-	2.6	-	2.6	S-NSD-1	38	USACE	44.9372	-74.1321

Cover Type Classification ¹ and Acreage				Total Wetland Acreage within Survey Area	Stream Present Within Wetland	Linear Feet of Stream Within Wetland	Presumed Jurisdiction	Latitude of Centroid	Longitude of Centroid
PEM	PSS	PFO	PUB						
					S-WCR-2	876			
-	-	1.7	-	1.7	-	-	USACE	44.9249	-74.1378
-	-	0.6	-	0.6	S-WCR-1	473	USACE	44.9356	-74.1381
2.1	1.2	3.1	-	6.3	-	-	USACE	44.9251	-74.1101
3.7	-	0.5	-	4.2	-	-	USACE	44.9245	-74.1161
0.2	-	-	-	0.2	-	-	NON-JURISDICTIONAL	44.9271	-74.1178
-	-	0.5	-	0.5	S-BBP-1	201	USACE	44.9126	-74.1383
Total Wetland Acreage Delineated²:				70.0	Total Linear Feet	6,170			

¹PEM – palustrine emergent; PSS – palustrine scrub-shrub; PFO – palustrine forested; PUB – palustrine unconsolidated bottom

²Total values subject to rounding discrepancies

Source: TRC 2021.

Table 3-3. Delineated Streams within the Project Area

Stream Field Designation	Flow Regime Classification	Linear Feet within Project Area	NYSDEC Waterbody ID Number	NYSDEC Classification¹	Potential Jurisdiction	Associated Buffer	Centroid Coordinates
S-BBP-1	Intermittent	228.1	910-24	-	USACE	-	44.9126, -74.1383
S-BBP-3	Perennial	103.2	910-24	Class C(T)	USACE/NYSDEC	50'	44.9125, -74.1379
S-JJB-1	Perennial	5,470.7	910-25	Class D	USACE	-	44.9221, -74.1324
S-JJB-2	Perennial	2,780.1	910-24	Class C(T)	USACE/NYSDEC	50'	44.9161, -74.1378
S-JJB-4	Intermittent	258.0	910-24		USACE	-	44.9344, -74.1268
S-JJB-5	Intermittent	636.4	910-25	-	USACE	-	44.9192, -74.1315
S-JJB-6	Intermittent	247.7	910-25	-	USACE	-	44.9181, -74.1311
S-JJB-7	Intermittent	53.1	910-25	-	USACE	-	44.9198, -74.1281
S-JJB-8	Intermittent	127.2	910-25	-	USACE	-	44.9194, -74.1271
S-JJB-9	Intermittent	264.6	-	-	USACE	-	44.9153, -74.1350
S-JJB-11	Perennial	1,234.9	910-24	Class C(T)	USACE/NYSDEC	50'	44.9194, -74.1363
S-JJB-12	Perennial	500.8	910-24	Class C(T)	USACE/NYSDEC	50'	44.9178, -74.1335
S-JJB-13	Perennial	85.1	-	-	USACE	-	44.9183, -74.1363
S-JJB-14	Perennial	1,535.4	-	Class C(T)	USACE/NYSDEC	50'	44.9200, -74.1364

Stream Field Designation	Flow Regime Classification	Linear Feet within Project Area	NYSDEC Waterbody ID Number	NYSDEC Classification ¹	Potential Jurisdiction	Associated Buffer	Centroid Coordinates
S-JJB-16	Intermittent	909.1	-	-	USACE	-	44.9214, -74.1237
S-JJB-17	Intermittent	1,636.1	910-24	-	USACE	-	44.9196, -74.1089
S-NSD-1	Intermittent	398.7	910-24	-	USACE	-	44.9367, -74.1318
S-WCR-1	Ephemeral	1,466.6	910-25	Class D	NON-JURISDICTIONAL	-	44.9346, -74.1360
S-WCR-2	Intermittent	3,110.0	910-24	Class C(T)	USACE/NYSDEC	50'	44.9351, -74.1276
S-WCR-4	Ephemeral	1,764.4	-	-	NON-JURISDICTIONAL	-	44.9289, -74.1157
S-WCR-6	Ephemeral	957.0	-	-	NON-JURISDICTIONAL	-	44.9303, -74.1107
S-WCR-7	Intermittent	131.8	910-25	-	USACE	-	44.9183, -74.1229
S-WCR-8	Ephemeral	770.0	-	-	NON-JURISDICTIONAL	-	44.9156, -74.1291
S-WCR-9	Intermittent	625.4	910-25	-	USACE	-	44.9192, -74.1297
S-WCR-10	Intermittent	373.3	-	-	USACE	-	44.9222, -74.1269
Total Stream Length Delineated		25,667.6					

¹A classification of Class C indicates that the best use of the stream is fishing. A classification of Class D indicates generally suitable for fishing and non-contact recreation. Streams designated (T) indicate that the waterbody supports trout.

Sources: TRC 2021; NYSDEC 2021b,c.

3.3 Geographic, Topographic, and Physical Features

The Project Area is mostly flat to slightly steep, ranging from approximately 650 to 1,050 feet above mean sea level with the highest point located in the southeastern corner. In general, topography slopes down-gradient from south to north, towards the split between Chateaugay River and Allen Brook (USGS 2016a, 2019a; Figure 1, Appendix A). The 5-mile Study Area is mostly flat, with some areas of steep slopes in the vicinity of the Chateaugay River. Elevations range from approximately 300 to 1,600 feet above mean sea level with the highest point located in the south-southeastern portion. In general, topography slopes down-gradient from south to north, towards the Canadian border (USGS 2016a,b,c; USGS 2019a,b; Figure 2, Appendix A). No prominent ridgelines or high elevation mountaintops are present within the Project Area or 5-mile Study Area.

The Project Area is located entirely within the Laurentian Mixed Forest Province and the Upper St. Lawrence Valley (83e) of the Eastern Great Lakes Lowlands Level III Ecoregion (83). Dominant natural vegetation within these ecoregions includes sugar maple (*Acer saccharum*), red maple (*A. rubrum*), eastern hemlock (*Tsuga canadensis*) and eastern hop-hornbeam (*Ostrya virginiana*) (TRC 2021). The 5-mile Study Area extends into the Adirondack/New England Mixed Forest/Coniferous Forest/Alpine Meadow Province within the St. Lawrence Lowlands (83d) and Upper St. Lawrence Valley (83e) of the Eastern Great Lakes Lowlands Level III Ecoregion (83), and the Northern and Western Adirondack Foothills (58ab) of the Northeastern Highlands Level III Ecoregion (Bailey 1995; Bryce et al. 2010) (Figure 6, Appendix A). Ecoregions are ecosystems of regional extent. The Eastern Great Lakes Lowlands ecoregion surrounds the highland ecoregions of northern New York State. Valleys and lowlands are underlain by interbedded and erodible limestone, shale, and sandstone rocks. The topography and soils of the lowlands have been shaped by glacial lakes and episodic glacial flooding forming glacial lakes, marine plains, and scattered low ridges (Bryce et al. 2010). The Northeastern Highlands ecoregion covers the mountainous portions of New York, and is characterized by hills and mountains, extensive forest cover, glacial lakes, wetlands, bogs, and high-gradient coldwater streams (Bryce et al. 2010).

As detailed in Table 3-1 and shown on recent aerial imagery, the Project Area consists primarily of agricultural fields with some undeveloped natural meadows and wooded areas (MRLC Consortium 2016; Google Earth Pro 2020). Aerial imagery of the 5-mile Study Area indicates a decrease in agriculture (from approximately 76 percent of the Project Area to approximately 37 percent of the 5-mile Study Area), an increase in undeveloped forest (from approximately 19 percent of the Project Area to approximately 40 percent of the 5-mile Study Area), and an increase in wetlands (from approximately 3 percent of the Project Area to approximately 18 percent of the 5-mile Study Area). Several farm buildings and/or rural residences are located along the center boundary of the Project Area on Route 11, along the southern boundary on Malone-Chateaugay Road, and in the northeastern corner on Stuart Road. The Towns of Burke and Chateaugay, located adjacent to the west and east of the Project Area, respectively, reflect an increase in residential and commercial infrastructure and open space developed land use, collectively totaling approximately 4 percent of the 5-mile Study Area (in comparison to approximately 2 percent of the Project Area) (MRLC Consortium 2016; Google Earth Pro 2020).

3.4 Classified Lands and Resources of Potential Concern

The Project Area consists entirely of unprotected or unclassified lands and does not intersect any federal, state, county, or other designated jurisdictions. Table 3-4 summarizes the protected and classified lands within the Project Area and 5-mile Study Area, as identified by the USGS PADUS

(USGS 2020). Figure 7 (Appendix A) illustrates the locations of protected and classified lands within the Project Area and 5-mile Study Area.

Table 3-4. Classified Lands Identified within the Project Area and 5-Mile Study Area

Classification	Acres within Project Area	Acres within 5-Mile Study Area
Federal		
NRCS Wetland Reserve Program	0.0	405.6
State		
Adirondack Park	0.0	2,707.6
Franklin 10 (Valley View) State Forest	0.0	75.0
Chateaugay Fish Hatchery	0.0	14.5
Other		
Audubon IBA: Adirondack Forest Tract	0.0	845.0
Unprotected/Unclassified	1,432.0	65,808.6
Total	1,432.0	69,864.3

Source: USGS 2020.

Resources of potential concern for wildlife within the 5-mile Study Area are discussed below.

3.4.1 Wetlands Reserve Program

According to the USGS PADUS (2020), four properties within the 5-mile Study Area, totaling approximately 405.6 acres, are currently enrolled in the USDA NRCS Wetlands Reserve Program (WRP) (Figure 7, Appendix A). The WRP is a voluntary program that offers landowners the opportunity to protect, restore, and enhance wetlands on their property. Under the WRP, landowners enter into a long-term contract/cost-agreement with the NRCS to achieve increased wetland functions and values, along with optimum wildlife habitat, on every acre enrolled in the program (USDA NRCS 2020b).

3.4.2 Adirondack Park

Adirondack Park is located approximately 4.0 miles south of the Project Area. The southern extent of the 5-mile Study Area, totaling approximately 2,707.6 acres, intersects Adirondack Park (Figure 7, Appendix A). Encompassing one-third of the total land area of New York State, Adirondack Park consists of vast forests and rolling farmlands, towns and villages, mountains and valleys, lakes, ponds, and free-flowing rivers, amongst private lands and public forest. Adirondack Park is known for its extensive wild landscapes, which includes tracts of old-growth forest, and hundreds of species of shrubs, herbs, and grasses endemic to the region (Audubon 2021). Adirondack Park supports a diverse range of native wildlife and avian species including moose, black bear, eastern cougar, wolf, coyote, beaver, fisher, turtles, bats, owls, loons, falcons, and eagles (Adirondack 2021).

3.4.3 Audubon Important Bird Areas

The Adirondack Forest Tract IBA is located approximately 4.4 miles south of the Project Area. The southern extent of the 5-mile Study Area, totaling approximately 845.0 acres, intersects the Adirondack Forest Tract IBA (Figure 7, Appendix A). The Adirondack Forest Tract IBA supports the largest relatively intact tract of forest habitat in the state that supports a characteristic forest breeding bird community, habitat for a distinctive sub-alpine bird community, boreal habitat, and breeding habitat for at-risk species. Approximately 90 percent of the Adirondack Forest Tract IBA consists of open and shrub habitat, including old field/pasture, shrub swamp, successional hardwood, successional shrub, and cropland (Audubon 2021). Avian species identified as having the potential to occur within the Adirondack Forest Tract IBA are presented in Table B-1 (Appendix B).

3.4.4 Valley View State Forest

The Valley View (Franklin 10) State Forest, totaling approximately 75.0 acres, is located approximately 3.5 miles southeast of the Project Area (Figure 7, Appendix A). No publicly available information is presented by the NYSDEC for this location (NYSDEC 2021d).

3.4.5 Chateaugay Fish Hatchery

The Chateaugay Fish Hatchery, totaling approximately 14.5 acres, is located approximately 2.8 miles east of the Project Area (Figure 7 Appendix A). The Chateaugay Fish Hatchery has a diverse rearing program which includes Raquette Lake strain lake trout, brown trout, rainbow trout and brook trout, including the Temiscamiex domestic hybrid used extensively in Adirondack Park lakes and ponds (NYSDEC 2021e).

3.5 Significant Habitat Areas

The 5-mile Study Area overlaps two significant habitat areas, the St. Lawrence River Valley Grassland Focus Area and areas containing core forest blocks (USDA NRCS 2020a), that may function to funnel or concentrate birds and bats during breeding, migration, and wintering periods. No significant natural communities were identified within the Project Area in consultation with the NYNHP (NYNHP 2019). Additionally, a desktop review of NYSDEC's Nature Explorer (NYSDEC 2020a) did not identify any wildlife concentration areas within the 5-mile Study Area (Appendix C).

3.5.1 Grassland Focus Area

The Project Area and 5-mile Study Area intersect the St. Lawrence River Valley Grassland Focus Area developed to guide conservation of grassland birds in New York. In 2005, Audubon New York conducted a Grassland Breeding Bird Focus Area Survey during the breeding season to collect species distribution and abundance data within each focus area in order to guide conservation and management activities. The results of the survey were assessed to identify Highest Priority Regions within each Grassland Focus Area. The final compilation of the results indicates the highest priority regions of the state that scored in the highest range of a combined index of abundance and diversity for breeding grassland birds. Locations important for wintering raptors, especially the short-eared owl, should also be considered as highest priority when directing conservation towards highest priority areas (USDA NRCS 2020a). The nearest 'Highest

Priority Region' is located approximately 34 miles northwest of the Project Area Audubon New York 2008).

3.5.2 Core Forest Blocks

According to the NLCD, approximately 121 acres of core forest blocks, or contiguous areas of 150 acres or larger, are located within northern portion the Project Area and approximately 36,124 acres of core forest blocks are located within the 5-mile Study Area (Figure 8, Appendix A). Core forest blocks are important for sensitive wildlife including bat species and forest songbirds, which avoid nesting near areas with human disturbance. The fragmentation of large forests by new development reduces or eliminates core forest and is a leading driver of biodiversity loss. Fragmentation decreases forest habitat quality, disrupts wildlife movement, and facilitates the spread of invasive species (NYNHP 2019).

In addition to the core forest blocks, the Project Area contains approximately 12 acres of forested riparian habitat and approximately 4,094 acres of forested riparian habitat within the 5-mile Study Area (USFWS 2020a). For the purposes of this analysis, forested riparian habitat is defined as NWI-identified PFO wetlands.

Summary

Based on the desktop analysis, land use is primarily agriculture (75 percent) consisting of cultivated or planted hay, pasture lands, and cultivated crops. Identified wetlands and waterbodies may be considered jurisdictional and subject to regulation pursuant to NYSDEC 900.1-3 (e) and (f), respectively.

The 5-mile Study Area intersects the following landscape features or resources of potential concern to wildlife: grassland focus areas, core forest blocks, wetlands and waterbodies, Audubon IBAs, WRP-managed easements, one state park, and one state forest.

No USFWS-designated NWR easements or NYSDEC WMAs are present within the Project Area or 5-mile Study Area (NYSDEC 2021f; USGS 2020; USFWS 2020b).

3.6 Wildlife

As presented in Section 3.1, the majority of the Project Area consists of agricultural lands, consisting of planted hay, pasture lands, and cultivated crops. The diversity of vegetation communities and land uses within the 5-mile Study Area is greater and supports numerous species of birds, mammals, reptiles, amphibians, and fish. Lists of wildlife species potentially occurring in the Project Area are included in Table B-1 through B-4, Appendix B. Several of these wildlife species known to, or expected to, occur in the area are considered special status species. Special status species include NYS-listed as threatened or endangered, federally listed species, as protected pursuant to the Endangered Species Act (ESA), and species considered by NYSDEC as SOSC, Species of Greatest Conservation Need (SGCN), and Species of Potential Conservation Need (SPCN) (Tables B1-B4, Appendix B).

3.6.1 New York State Listed Species

Under 6 NYCRR Part 182, a permit is required for any taking of threatened or endangered species. Taking is defined in the regulations to include not only the direct killing of listed species,

but also actions that are expected to result in harm to individuals, including adverse impacts to habitats occupied by listed species. The permit required under existing law (ECL Section 11-0535) and regulations (Part 182) for activities that may result in the take of endangered or threatened species is an incidental take permit. These regulations refer to the permit as an incidental take permit because the "take" authorized by the permit is incidental to (i.e., not the primary purpose of) an otherwise lawful activity. State definitions of NYS-listed species and SOSC are as follows (NYSDEC 2020c):

- Endangered species are determined by the NYSDEC to be in imminent danger of extinction or extirpation in New York State, or are federally listed as endangered. All such species are protected under New York State ECL 11-0535.
- Threatened species are determined by the NYSDEC as likely to become endangered within the foreseeable future in New York State, or are federally listed as threatened. All such species are protected under New York State ECL 11-0535.
- SOSC are those native species which are not yet recognized as endangered or threatened, but for which documented evidence exists relating to their continued welfare in New York State. Legislation passed 4 October 2005 gave Protected Wildlife status under ECL 11-0103 to all species listed as Special Concern. An incidental take permit is not required for activities affecting SOSC in Part 182.

Based on correspondence with the NYNHP and use of the NYSDEC Nature Explorer, EAF and ERM (Appendix C), no records of NYS-listed animals or plants, or significant natural communities are present within the Project Area or in its immediate vicinity within the last five years (NYNHP 2019; NYSDEC 2021, 2021a,g; NYSDEC 2015).

Three NYS-listed threatened, endangered, or SOSC (Henslow's sparrow [*Ammodramus henslowii*], northern harrier [*Circus cyaneus*], and grasshopper sparrow [*Ammodramus savannarum*]) have been documented within the last five years within the Project Area (TRC 2020a; Figure 9, Appendix A). Suitable habitat for these species includes open habitats including grasslands, shrublands, marshes, bogs, and fallow, weedy, often moist fields and meadows.

Henslow's sparrows were documented at two locations in the northern portion on the Project Area (Figure 9, Appendix A) and singing males were observed within the Project Area during the breeding bird surveys (TRC 2020a). Northern harriers were recorded on two occasions, once during regular surveys, and once incidentally to surveys within the Project Area. These observations included an adult harrier of unknown sex and a pair visiting a nest along Stuart Road within the western boundary of the Project Area, though at the time of observation no eggs or young were observed in the nest (Figure 9, Appendix A). The northern harrier is included in the NYSDEC pre-proposal draft list under Part 182 of 6 NYCRR, to revise the current status from NYS-listed threatened to SOSC. No NYS-listed species were observed during or incidentally to the winter raptor surveys at the Project Area (TRC 2020b). Four observations of the grasshopper sparrow including one incidental observation and three non-incidental observations of singing males were recorded within the northern portion of the Project Area (Figure 9, Appendix A; TRC 2020a).

Additional NYS-listed species documented or having the potential to occur within the 5-mile Study Area according to publicly available databases and documented during breeding bird field surveys are included in Tables B-1 through B-4, Appendix B, however, they were not observed within the Project Area within the last five years pursuant to section §900-1.3 (g)(1)(i) under Section 94-c of New York Executive Law.

3.6.2 Federally Listed Species

Under the ESA, activities that may result in the “take” of a species listed as threatened or endangered are prohibited. Take is defined as the harassment, harm, pursuit, hunting, shooting, wounding, killing, trapping, capture, or collection, as well as modification or degradation of habitat that results in death or injury of these species.

According to the USFWS IPaC report (Appendix C), one federally listed species, the northern long-eared bat (*Myotis septentrionalis*) was identified as having the potential to occur in the vicinity of the Project Area and 5-mile Study Area. Because the northern long-eared bat is currently listed as threatened under the ESA, is also considered NYS-listed threatened under 6 NYCRR Part 182. Additionally, this species is included in the NYSDEC Pre-proposal draft list under Part 182 of 6 NYCRR, to revise the current status to NYS-listed threatened. No designated critical habitat occurs within or adjacent to the 5-mile Study Area (USFWS 2020b).

The northern long-eared bat was listed as a federally threatened species in April of 2015, with an interim 4(d) rule; the final 4(d) rule was effective as of February 16, 2016. Section 4(d) of the ESA allows the USFWS to promulgate special rules for species listed as threatened that provide flexibility in implementing the ESA and to target the take prohibitions to those that provide conservation benefits for the species. This targeted approach can reduce ESA conflicts by allowing some activities that do not harm the species to continue, while focusing our efforts on the threats that make a difference to the species’ recovery (USFWS 2020b). For the northern long-eared bat, the 4(d) rule tailors’ protections to areas affected by white-nose syndrome during the bats’ most sensitive life stages. The rule is designed to protect the bat while minimizing regulatory requirements for landowners, land managers, government agencies and others within the species’ range. Based on the NYNHP (2019) response, the Project Area is not within a 150-foot radius of a known maternity roost or within 0.25-mile of a known hibernaculum and therefore compliant with the 4(d) rule and incidental take is not prohibited under 6 NYCRR Part 182.

The northern long-eared bat spends winter months hibernating in large caves, quarries, and mines and the summer/fall months roosting under loose bark or in crevices and hollows in both live trees and snags (dead trees). During the summer, this species roosts either singly or in colonies. Northern long-eared bats seem to be flexible in selecting roosts, choosing roost trees based on suitability to retain bark or provide cavities or crevices. Rarely have northern long-eared bats have been observed roosting in man-made structures such as sheds or barns. Breeding begins in late summer or early fall when males begin swarming near hibernacula (USFWS 2021).

As detailed above in Table 3-1, approximately 22 percent of the Project Area includes forests and woodlands that may be capable of providing suitable habitat for maternity colonies and roosting habitat. No known caves, mines, or quarries have been identified within the Project Area and 5-mile Study Area (USGS 2020). Existing mines and quarries have been identified within the 5-mile Study Area (NYSDEC 2020b) (Figure 6, Appendix A). Based on desktop review, no known northern long-eared bat occurrences (NYSDEC 2018), hibernacula or roost sites have been identified within the Project Area nor 5-mile Study Area (USFWS 2020c; NYNHP 2019).

3.6.3 Migratory Birds and Eagles

Migratory birds nest in the U.S. and Canada during summer months and migrate south to the southern U.S., tropical regions of Mexico, Central or South America, and the Caribbean for the non-breeding season. These species are protected pursuant to the Migratory Bird Treaty Act

(MBTA) under U.S. Code 703-711. The MBTA prohibits the take, kill, possession, and transportation of migratory birds, their eggs, and parts except when specifically permitted. In addition, bald and golden eagles are protected pursuant to the Bald and Golden Eagle Protection Act under 16 U.S. Code 668-668(d), which prohibits the take and disturbance of individual eagles, their nests, eggs, or parts. Bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*) have not been documented within the Project Area based on the use publicly available databases and field surveys for the Project Area (TRC 2020a,b). The golden eagle has been documented as potentially occurring through the 5-mile Study Area as a migrant only (NYSDEC 2020c).

In addition to the three NYS-listed species that were documented during the grassland breeding bird surveys (northern harrier, Henslow's sparrow, and grasshopper sparrow) (Figure 9, Appendix A), surveyors recorded a total of 846 bird observations during regular surveys and incidentally to surveys. These observations represented 47 distinct species (TRC 2020a). Of the species observed, 25 species were observed only incidentally to surveys and are included in Appendix B. The species observed most often during point count surveys was the red-winged blackbird (*Agelaius phoeniceus*), comprising 27.8 percent of all individual birds observed. Following the red-winged blackbird, the next most frequently observed species include bobolink (*Dolichonyx oryzivorus*), savannah sparrow (*Passerculus sandwichensis*), song sparrow (*Melospiza melodia*), and eastern meadowlark (*Sturnella magna*). These five most commonly observed species comprised 83.6 percent of all individuals observed. Species observed incidentally are more representative of the broader community of birds known to breed in New York State and include a number of forest-associated species (e.g., American crow [*Corvus brachyrhynchos*], black-capped chickadee [*Parus atricapillus*], and common raven [*Corvus corax*]).

Three migratory bird species were recorded during winter raptor surveys for the Project Area (TRC 2020b). One turkey vulture (*Cathartes aura*) and two observations, representing two species, red-tailed hawk (*Buteo jamaicensis*) and American kestrel (*Falco sparverius*), were recorded during the driving surveys. One observation of a red-tailed hawk was observed incidentally in route to survey locations. The species observed during the study (e.g., red-tailed hawk and turkey vulture) are common and widely distributed across their respective ranges. An additional 15 non-raptor avian species were documented on the Project Area, though none are classified as NYS-listed species. Overall, raptor use of the Project Area was observed during December and March, with the majority of observations occurring in March. Observations were generally concentrated in the western central portion of the Project. Use of the Project Area by listed species was not documented during winter raptor surveys, and there was little raptor use observed overall (TRC 2020b).

Summary

Based on a review of publicly available data sources and site visits for the Project Area, two NYS-listed species (Henslow's sparrow and northern harrier) and one SOSC (grasshopper sparrow) have been observed within the last five years. Additional NYS-listed threatened, endangered, SOSC, HPSGCN, SGCN, and SPCN have the potential to occur within the Project Area and 5-mile Study Area based on the availability of suitable habitat and known range (Appendix B, Tables B-1 through B-4).

One federally listed and NYS-listed threatened species (northern long-eared bat) has been identified by the USFWS as potentially occurring within the Project Area (USFWS 2020b). No known hibernacula or occurrences within the past five years have been identified within the

Project Area and 5-mile Study Area (USFWS 2020c). Additionally, based on the NYNHP (2019) response, the Project Area is not within 150-foot radius of a known maternity roost or within 0.25 miles of a known hibernaculum and is therefore compliant with the 4(d) rule and incidental take is not prohibited under 6 NYCRR Part 182.

Species observations recorded during field surveys are consistent with documentation of these species within the vicinity of the Project provided by NYSDEC and data available from other publicly available sources (NYBBA III 2020a,b; NYSDEC 2019, 2020c; USGS 2021; eBird 2021; NYSOA 2021) as identified in Appendix B. Observations of two NYS-listed species (Henslow's sparrow and northern harrier) were recorded during breeding bird field surveys for the Project Area (TRC 2020a; Figure 9, Appendix A).

Breeding bird and winter raptor surveys have been completed on-site and the results have been submitted to the NYSDEC under separate cover. No bald or golden eagles have been documented within the Project Area and 5-mile Study Area. The bird community observed in the Project Area is composed of species widely distributed in and typical to New York State.

3.7 Climate Change

The National Audubon Society '*Survival by Degrees*' climate change model assesses the vulnerability of over 600 avian species to climate change. According to the model, the summer and winter range and distribution of each bird species presented in this document is vulnerable as a result of an increase in ambient air temperature ranging from 1.5-3.0°C. The model results indicate that each species range and distribution will shift, expand, or contract as a result of increased global temperatures. Within Franklin County, Great Lakes communities will face more and worse algal blooms and pollution overflows as a result of rising temperatures. Threats identified within the 5-mile Study Area include increases in fire weather, spread of urbanization, and an increase in spring heat waves and heavy rain events that can impact nests and young birds (Audubon 2020).

Table 3-5 includes the climate vulnerability for listed bird species identified as potentially occurring within the 5-mile Study Area. The summer range of arctic birds, boreal birds, coastal eastern forest birds, and waterbirds within the Project area are assigned a high vulnerability ranking, representing a moderate to high loss of habitat for year-round residents and breeding, foraging, and migratory populations. According to Audubon's climate change model, birds with high to moderate vulnerability may lose more than half their current range and will be forced to search for suitable habitat elsewhere. However, the winter range of these species is assigned a lesser vulnerability ranking, representing a stable, low, to moderate loss of habitat in southern climates where migrating populations spend the winter (Audubon 2020).

Table 3-5. Climate Vulnerability for Listed Species within the 5-Mile Study Area

Common Name	Seasonal Range within the 5-mile Study Area	Overall Species Vulnerability Status for each Warming Scenario		
		+1.5 °C	+2.0 °C	+3.0 °C
Henslow's Sparrow	Summer/Breeding Uncommon	High	High	High
Northern Harrier	Summer/Breeding Common	Low	Low	Low
Grasshopper Sparrow	Summer/Breeding Uncommon	Stable	Stable	Low

Source: Audubon 2020.

Aside from the National Audubon Society '*Survival by Degrees*' climate change model, no regional- or species-specific climate change models or model results were identified for the wildlife and fish species presented in this document.

Summary

Based on a review of the National Audubon Society '*Survival by Degrees*' climate change model, the seasonal range of the Henslow's sparrow has the potential to be highly impacted as a result of increased climate warming, while the seasonal range of the northern harrier will be less impacted overall. However, in conjunction with the Project type and scope, it is unlikely that implementation of the Project would result in a substantial increase (+1.5-3.0°C) in ambient air temperature, by which suitable habitat range and distribution would be affected. While the anticipated cumulative impacts of solar arrays have the potential to cause regional changes in temperature and precipitation by altering the amount of solar radiation absorbed by the Earth or disrupting local airflow patterns (Hu et al. 2015), they also have the potential to reduce and/or replace existing fossil fuel emitting energy systems, thereby reducing carbon emissions. The Project would contribute to a reduction of global carbon emissions, which may result in a lesser global ambient air temperature increase. According to the National Audubon Society, if global ambient air temperatures are limited to 1.5°C above pre-industrial levels, the risk of bird species vulnerability will be lessened in comparison to projections associated with traditional and current fossil fuel emission sources (Audubon 2020).

No Project-specific climate change models have been developed to date; however, numerous modeling techniques can be applied in the event that species-specific results are required for Project implementation. According to Wilsey et al (2013), wildlife species range contractions and expansions, population abundance and dynamics, dispersal, gene flow, and phenology can be extrapolated using statistical, algorithmic (empirical), and spatially-explicit population modeling techniques to relate historical climate to current species distributions. Many modeling approaches that estimate historical changes in populations of threatened and endangered species also can be used to simulate future climate-induced changes.

4.0 Conclusions

This document is intended to provide sufficient information to the ORES and NYSDEC to determine whether occupied habitat for special status species and migratory bird species exists within the Project Area or whether additional surveys are required. Based on this desktop review and field surveys, the following conclusions were identified that should be considered to inform facility design which will, once completed, be submitted to the ORES and NYSDEC as part of the Section 94-c application:

- The Project Area is located entirely on unprotected/unclassified lands. No federal, state, county, or other designated jurisdictions are intersected by the Project Area. The 5-mile Study Area intersects various federal, state, and other designated area including a grassland focus areas, core forest blocks, Audubon IBAs, WRP-managed easements, one state park, and one state forest.
- Wetlands and waterbodies have been identified throughout the Project Area and may be considered jurisdictional and subject to regulation pursuant to NYSDEC 900.1-3 (e) and (f), respectively.
- Three NYS-listed threatened, endangered, or SOSC (Henslow's sparrow, northern harrier, and grasshopper sparrow) have been documented within the last five years within the Project Area.
- One federally listed species (northern long-eared bat) was identified as potentially occurring within the Project Area by the USFWS. No known observations of this species have occurred within the Project Area within the past five years. Additionally, the Project Area is not within 150-foot radius of a known maternity roost or within 0.25-mile of a known hibernaculum (NYNHP 2019) and therefore compliant with the 4(d) rule where incidental take is not prohibited under 6 NYCRR Part 182.
- Surveys for grassland breeding birds and winter raptor use have been conducted for the Project Area.
- The development of the Project would not contribute to the effects of climate change portrayed in current models. Instead, the development of the Project would be beneficial in preventing the loss of current wildlife species' ranges within the region.

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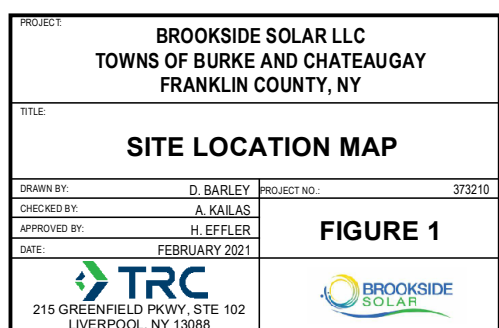
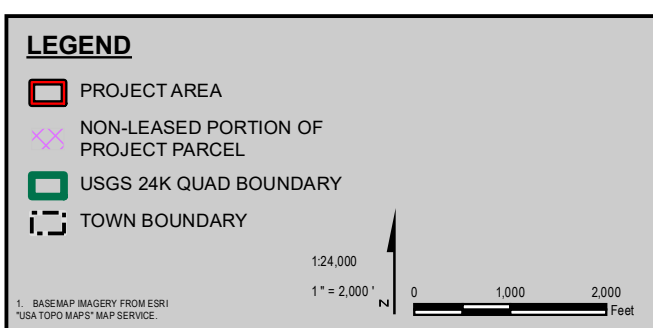
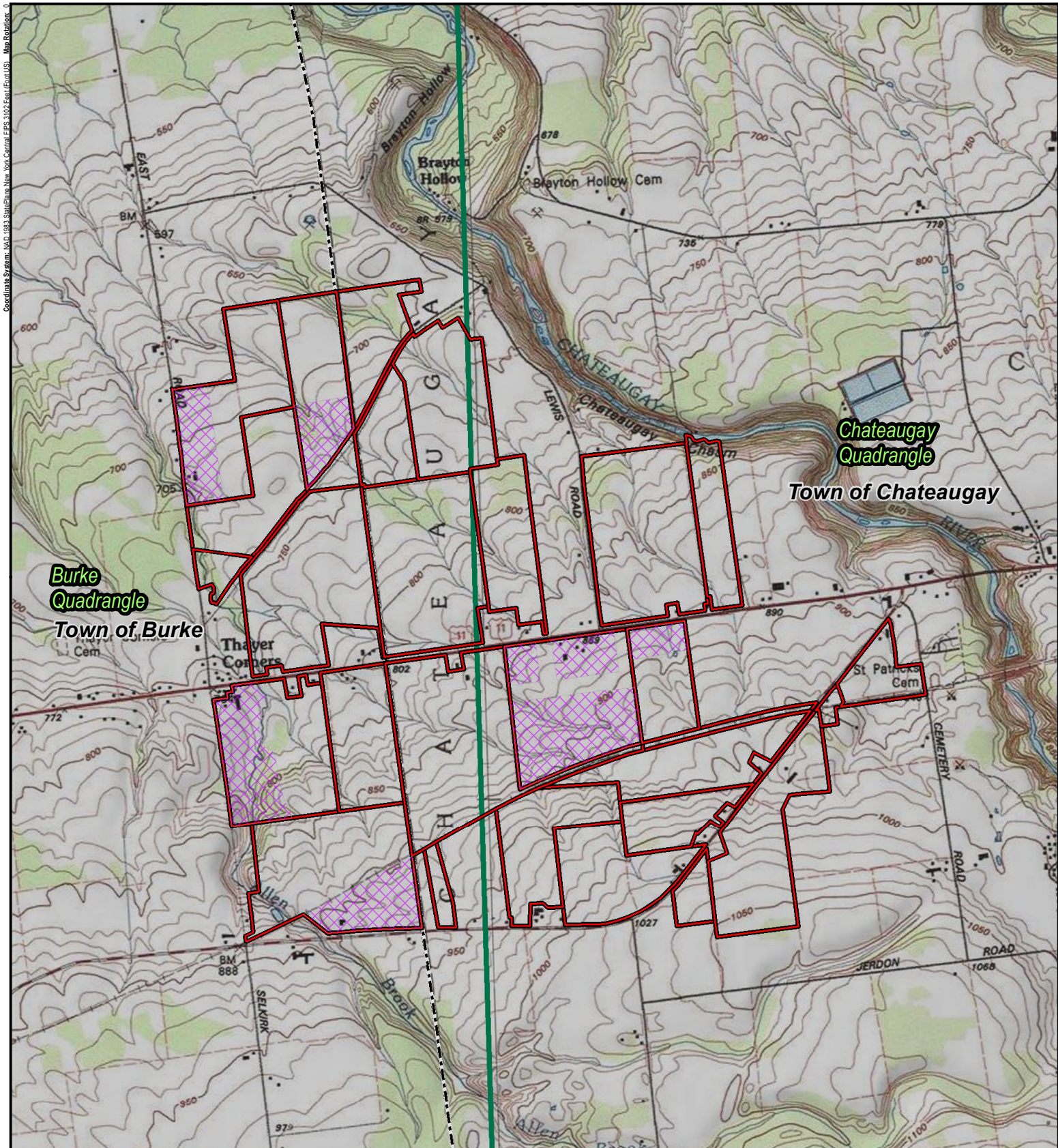
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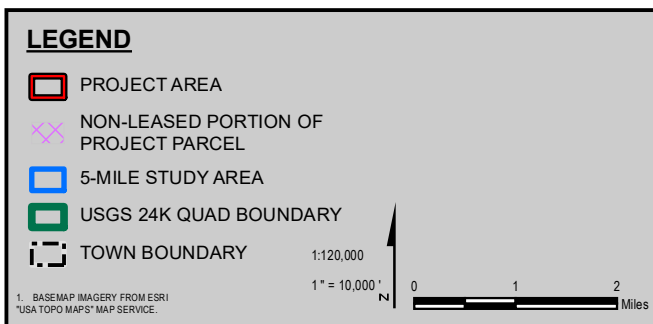
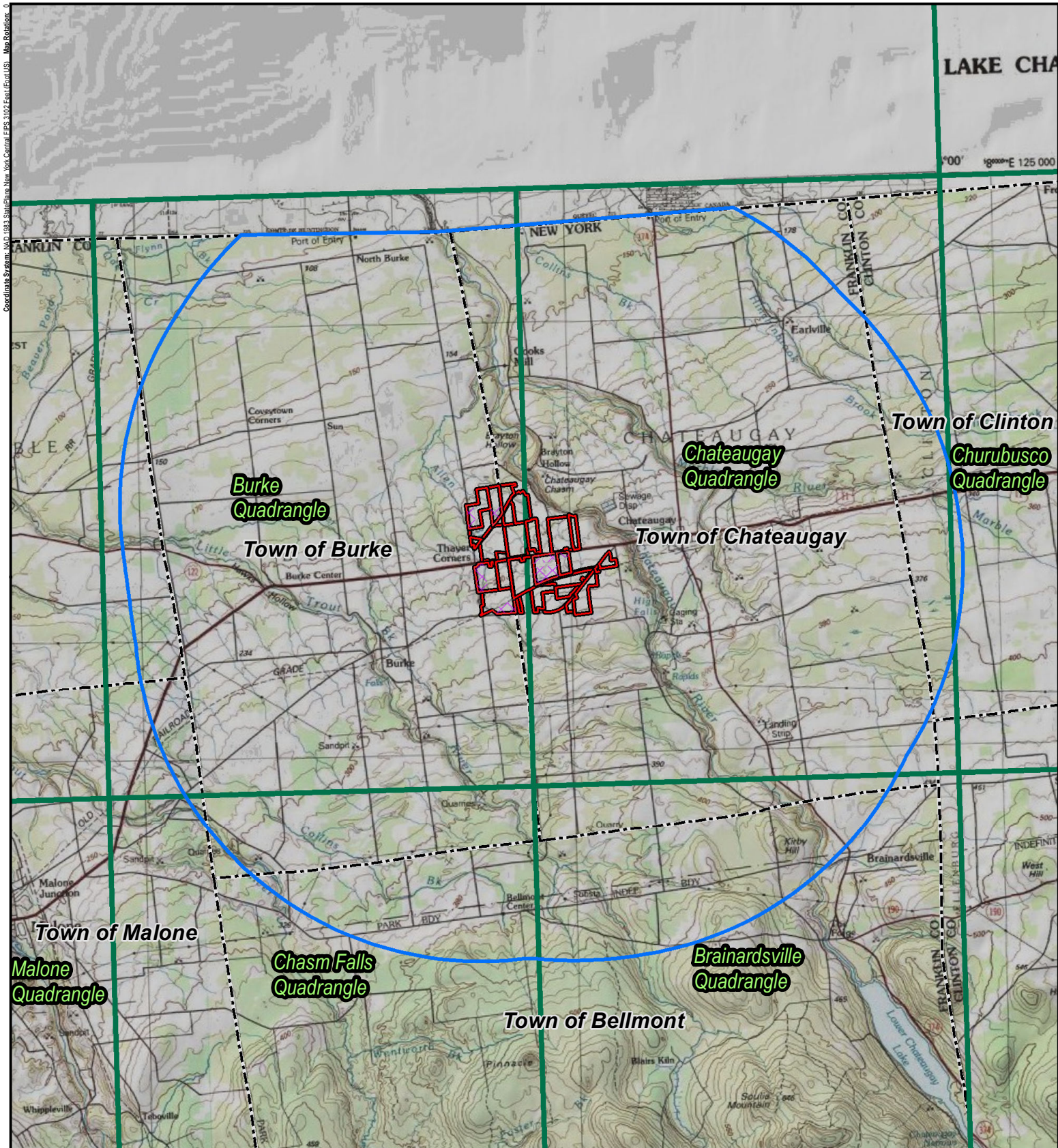
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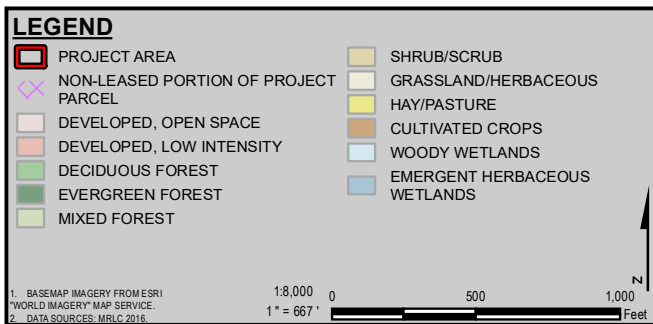
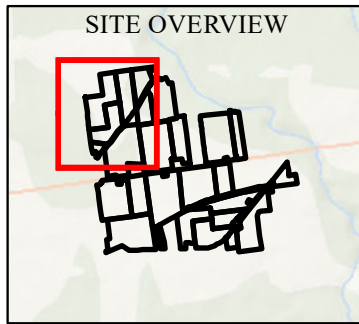
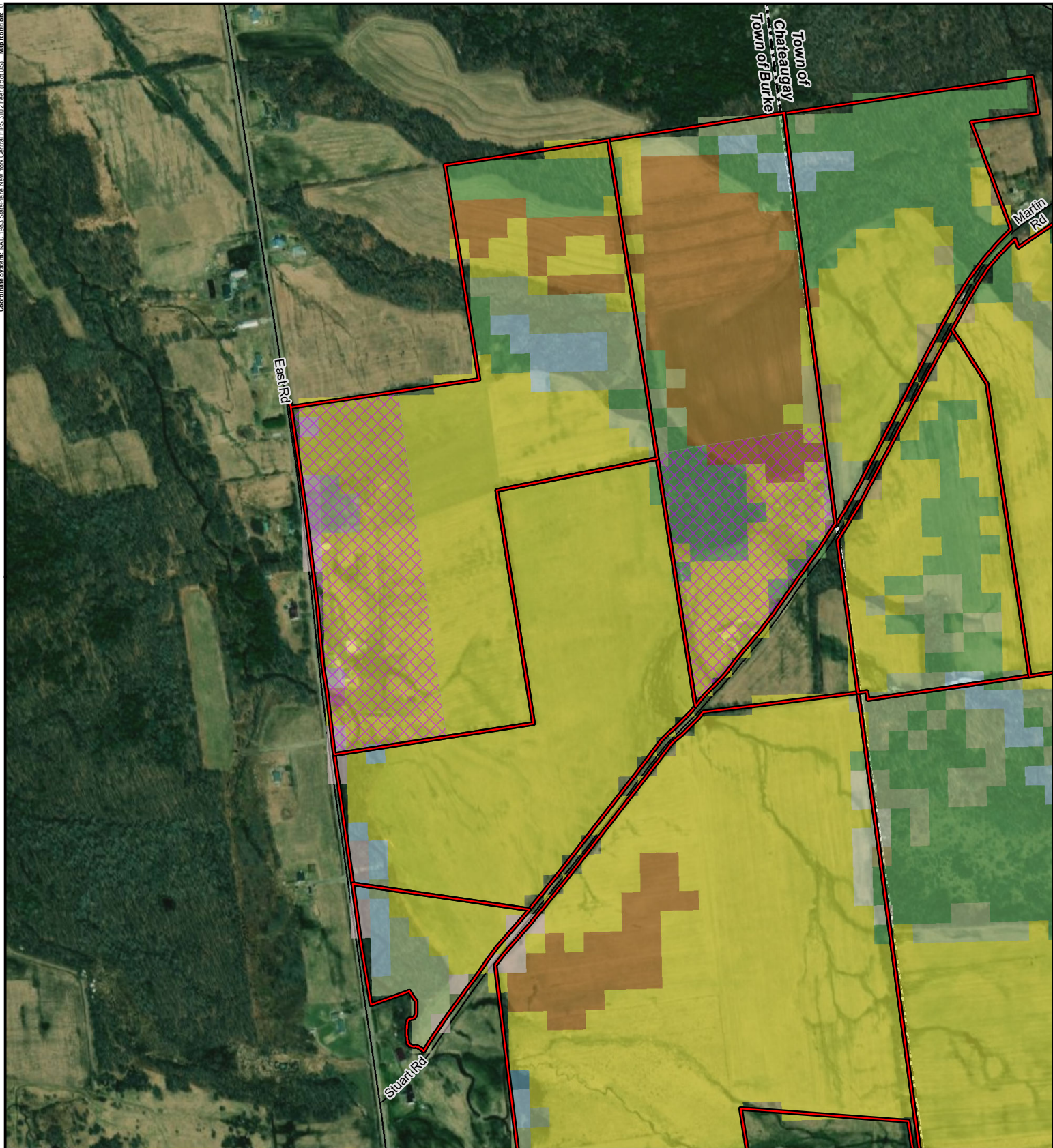
Appendix A: Figures

Figure Number	Figure Name
1	Project Area Location
2	5-mile Study Area Location
3	Land Cover in Project Area
4	NWI Resources in Project Area
5	NYSDEC Resources in Project Area
6	Ecoregions, Natural Communities, and Hibernacula in Study Area
7	Protected or Classified Lands in Study Area
8	Core Forest Blocks in Study Area
9	Observed Listed Species in Project Area

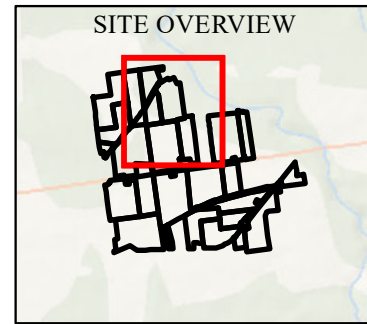
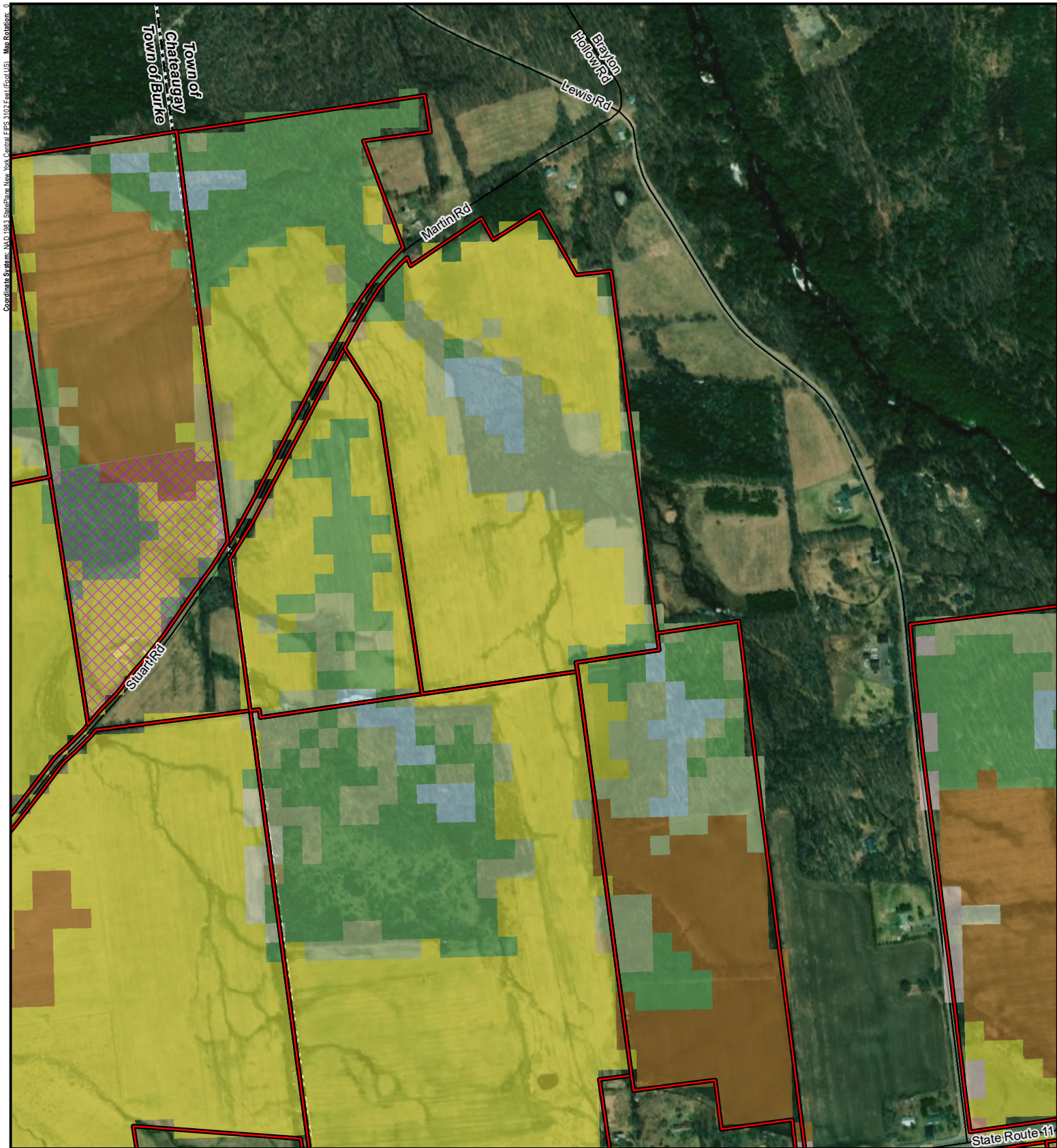




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		TOWNS OF BURKE AND CHATEAUGAY	
		FRANKLIN COUNTY, NY	
TITLE:			
STUDY AREA LOCATION			
DRAWN BY:	D. BARLEY	PROJECT NO.:	373210
CHECKED BY:	A. KAILAS	FIGURE 2	
APPROVED BY:	H. EFFLER		
DATE:	FEBRUARY 2021		
 TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088			

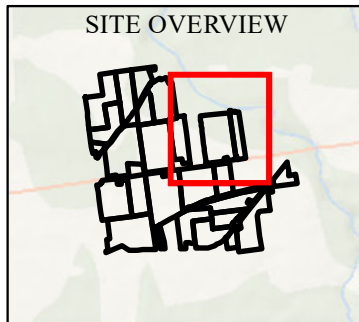
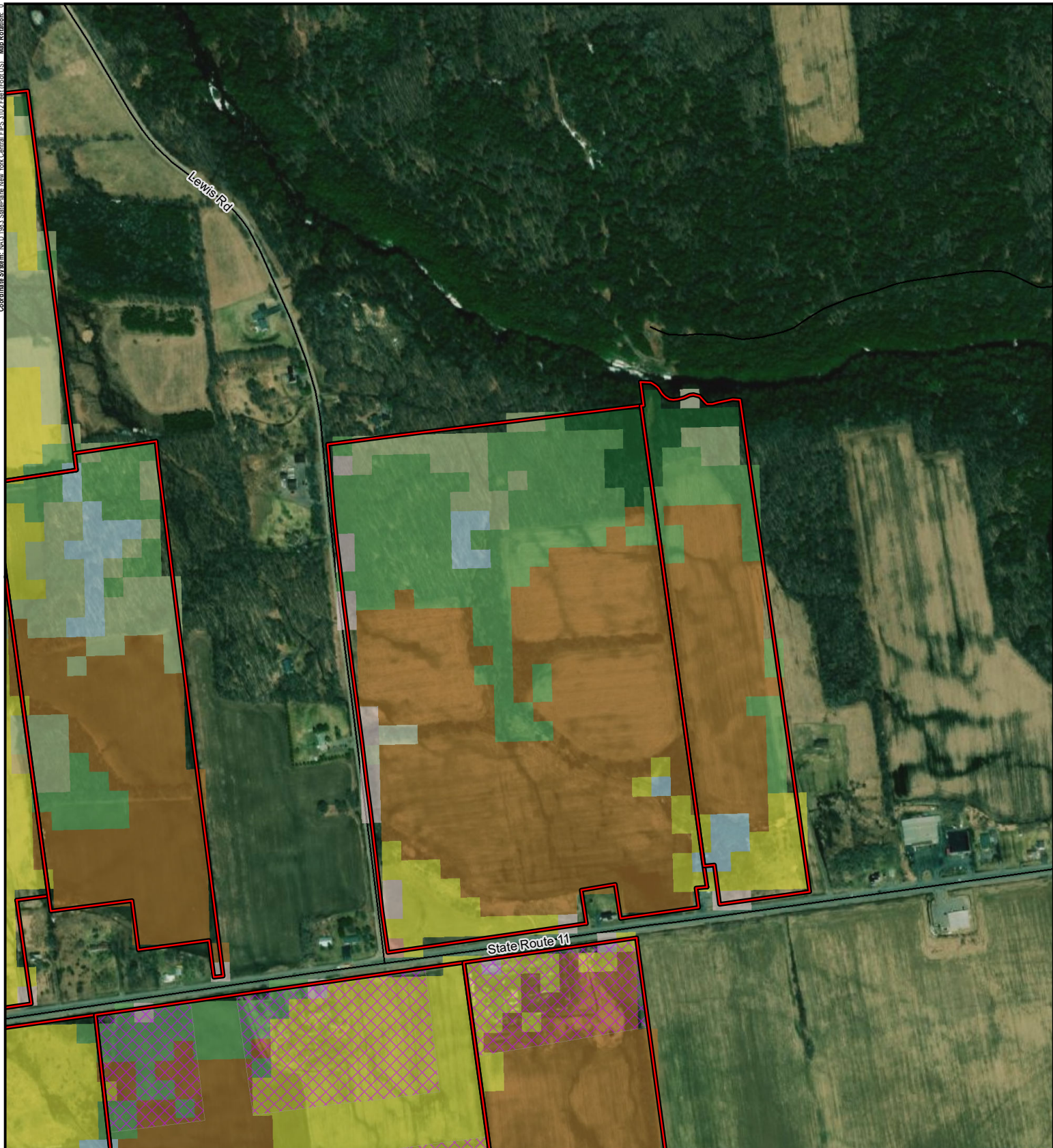


PROJECT	
BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE	
LAND COVER IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
FIGURE 3 SHEET 1 OF 7	

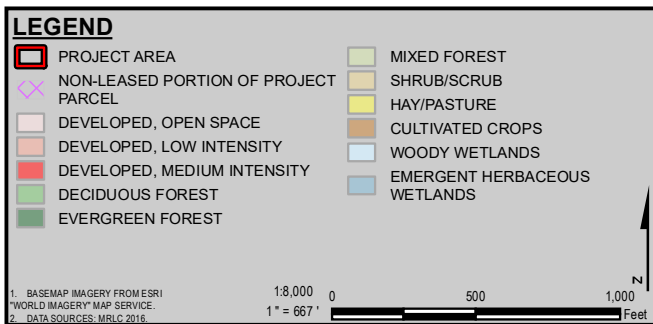
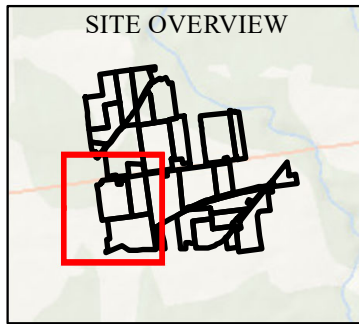
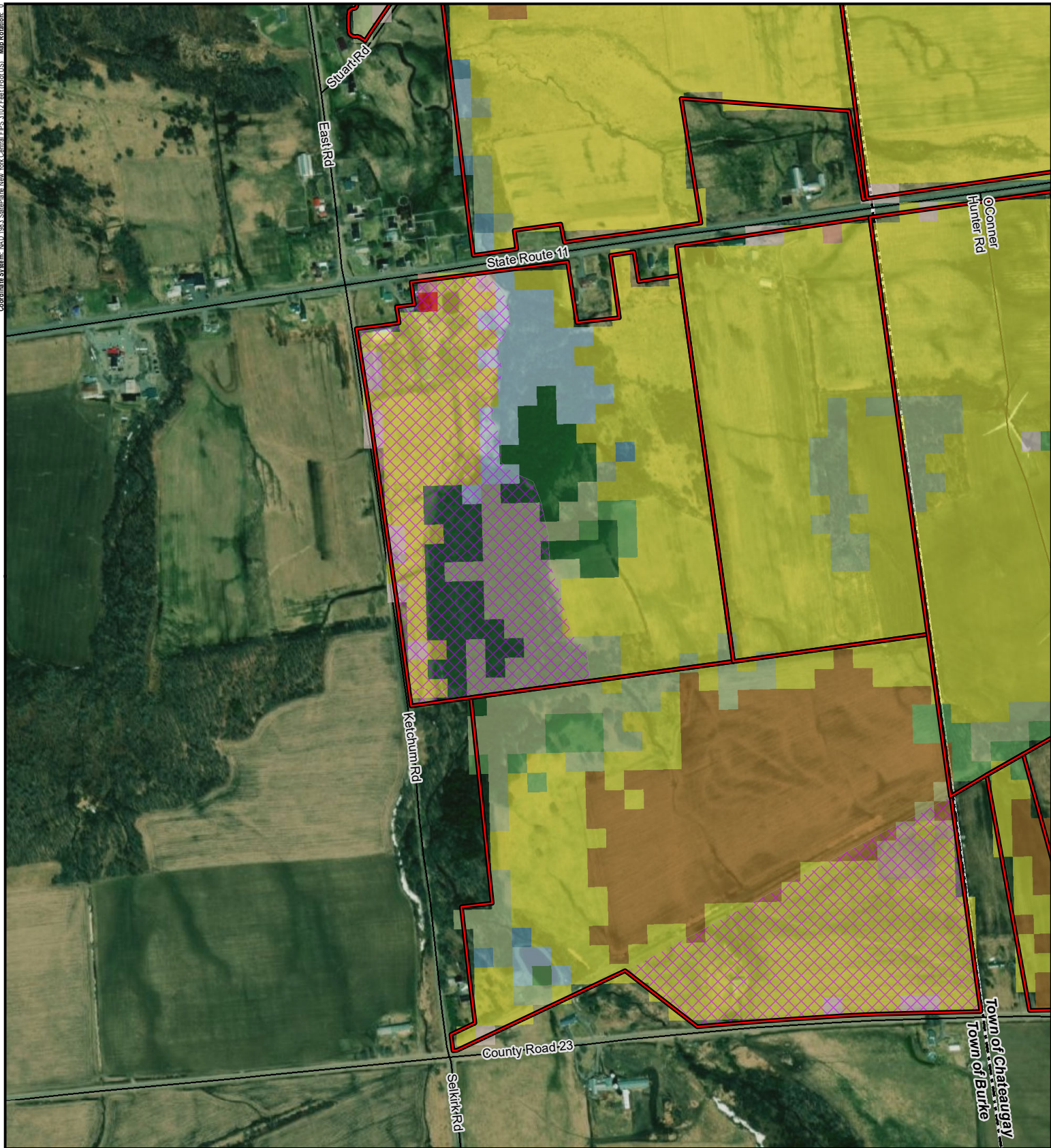


PROJECT: BROOKSIDE SOLAR LLC	
TOWNS OF BURKE AND CHATEAUGAY	
FRANKLIN COUNTY, NY	
TITLE: LAND COVER IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	FIGURE 3 SHEET 2 OF 7
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

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



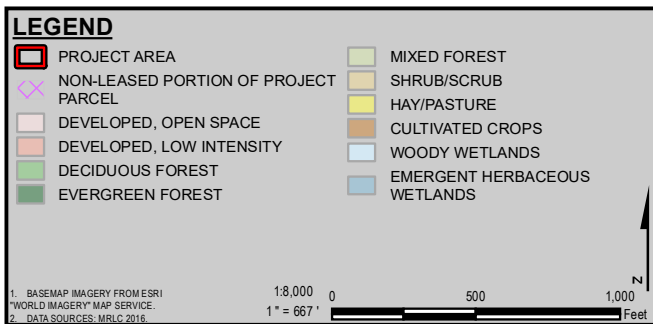
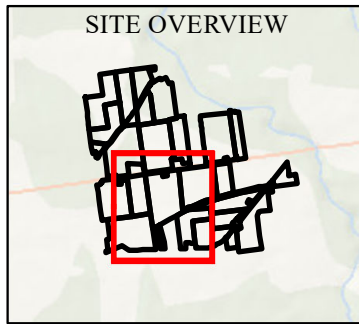
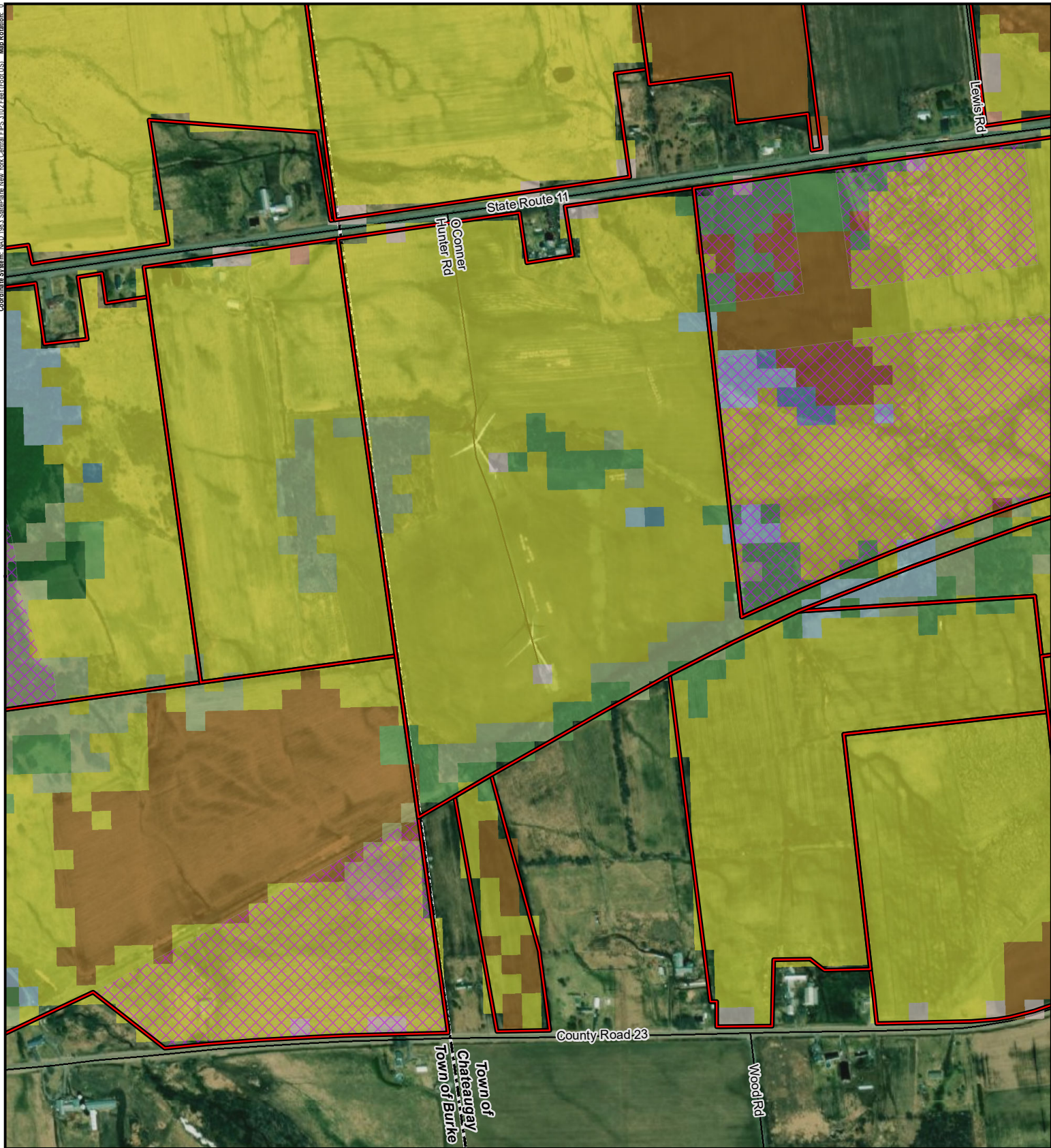
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TITLE	
LAND COVER IN PROJECT AREA	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. BARBER
APPROVED BY:	H. EFFLER
DATE:	FEBRUARY 2021
PROJECT NO.: 373222	
FIGURE 3 SHEET 3 OF 7	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
BROOKSIDE SOLAR	



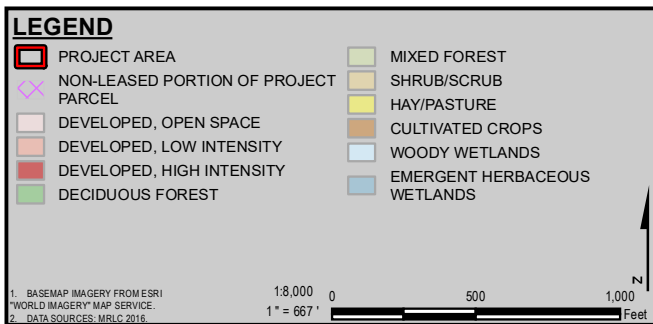
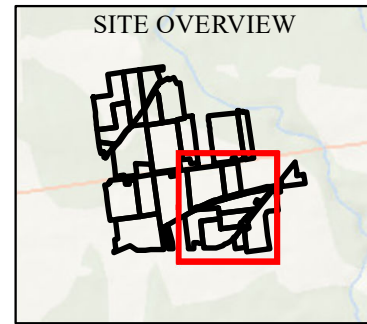
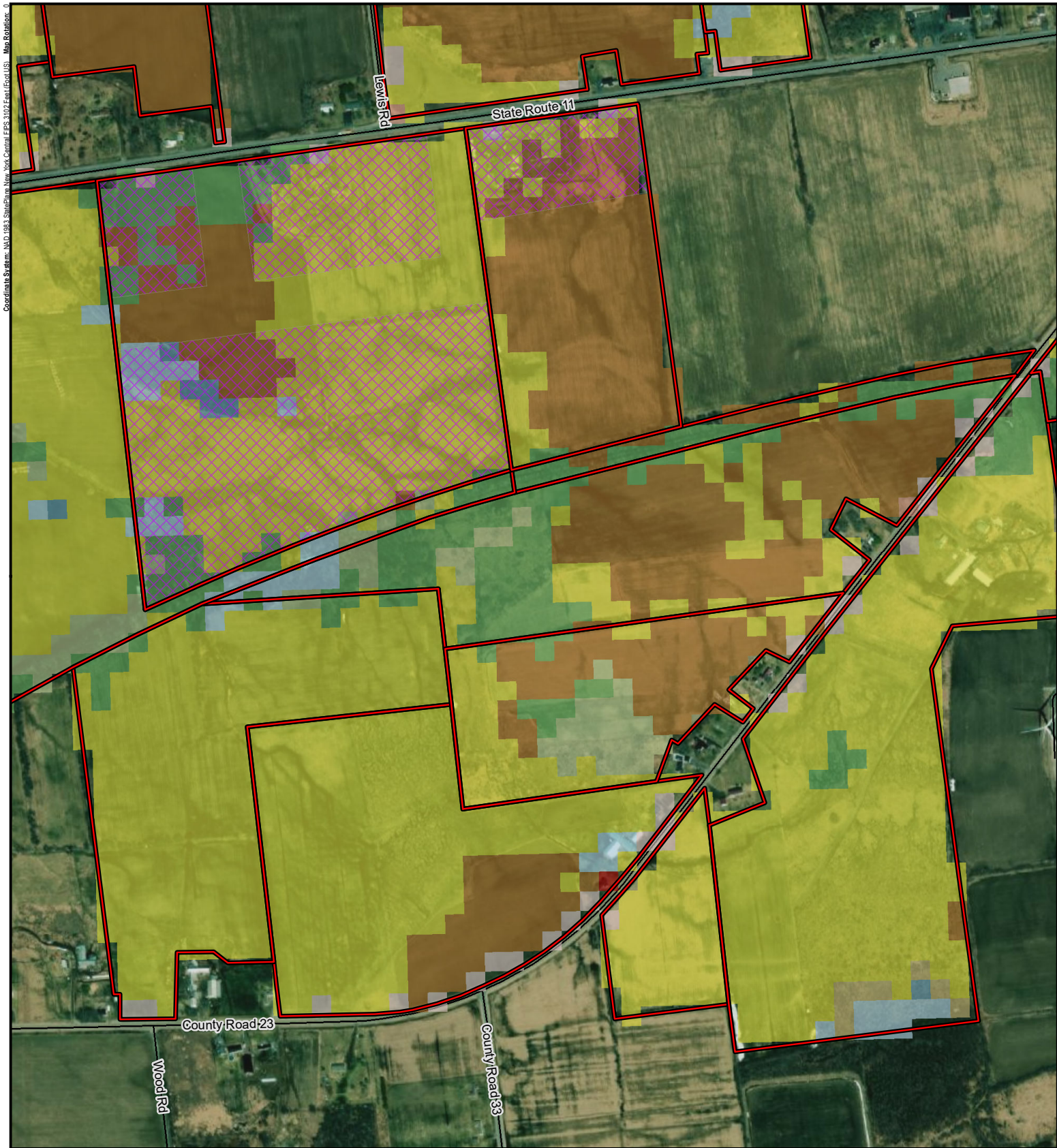
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TOWNS OF BURKE AND CHATEAUGAY	
FRANKLIN COUNTY, NY	
TITLE: LAND COVER IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
BROOKSIDE SOLAR	

FIGURE 3
SHEET 4 OF 7

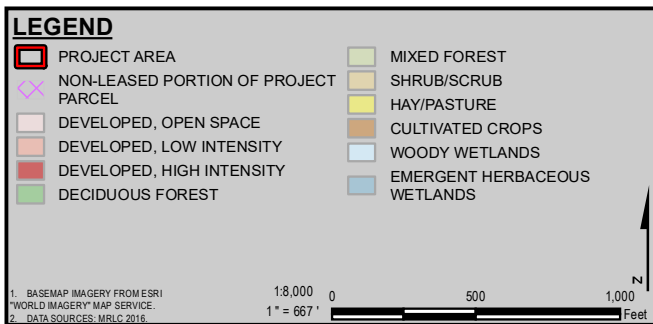
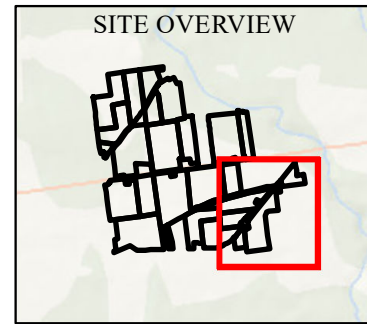
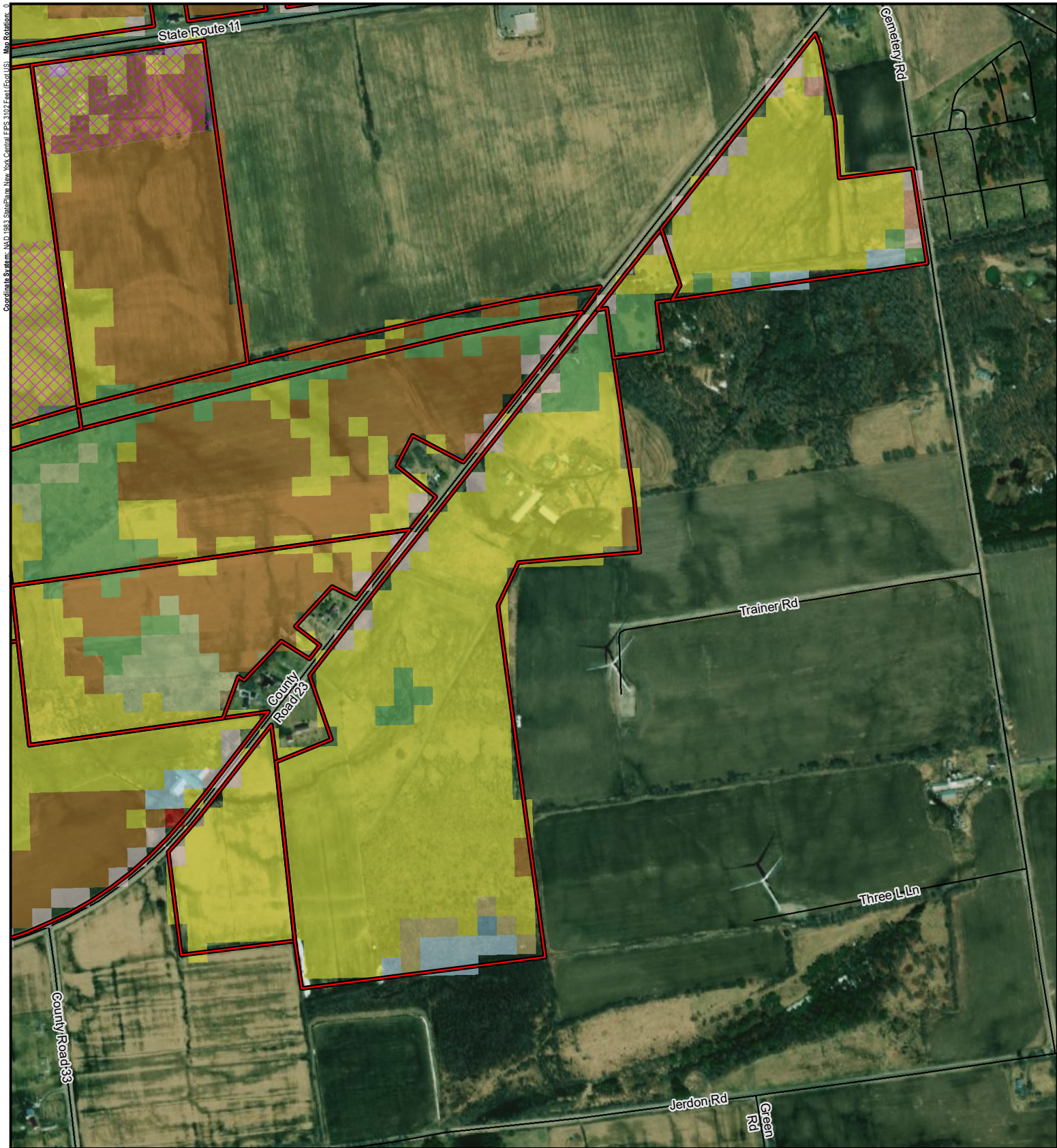
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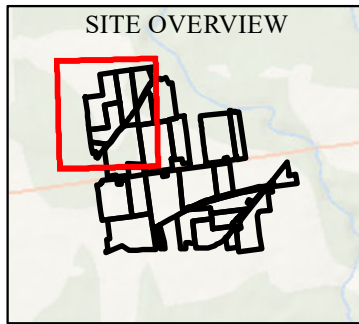
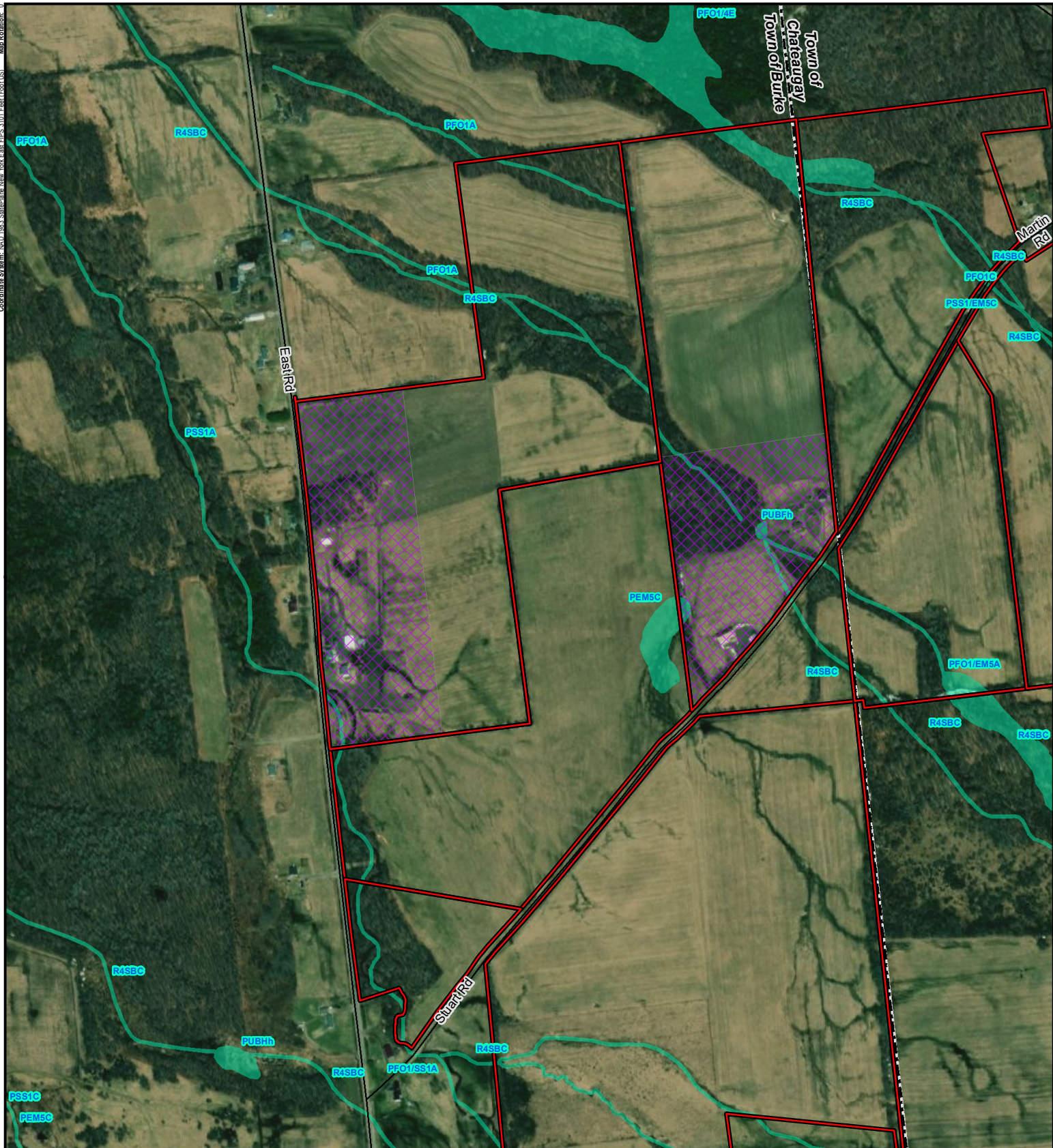
PROJECT	
BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE	
LAND COVER IN PROJECT AREA	
DRAWN BY:	D. BARLEY
CHECKED BY:	R. BARBER
APPROVED BY:	H. EFFLER
DATE:	FEBRUARY 2021
PROJECT NO.: 373222	
FIGURE 3 SHEET 5 OF 7	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
BROOKSIDE SOLAR	



PROJECT BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE LAND COVER IN PROJECT AREA	
DRAWN BY: D. BARLEY CHECKED BY: R. BARBER APPROVED BY: H. EFFLER DATE: FEBRUARY 2021	PROJECT NO.: 373222 FIGURE 3 SHEET 6 OF 7
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	



PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: LAND COVER IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	FIGURE 3 SHEET 7 OF 7
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
BROOKSIDE SOLAR	



LEGEND

PROJECT AREA

NON-LEASED PORTION OF PROJECT PARCEL

WETLANDS (NW1)

1. BASEMAP IMAGERY FROM ESRI
"WORLD IMAGERY" MAP SERVICE
2. DATA SOURCES: USFWS 2020

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1" = 667' Feet

PROJECT: **BROOKSIDE SOLAR LLC
TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN COUNTY, NY**

TITLE: **NWI RESOURCES IN PROJECT AREA**

DRAWN BY: D. BARLEY

CHECKED BY: R. BARBER

APPROVED BY: H. EFFLER

DATE: FEBRUARY 2021

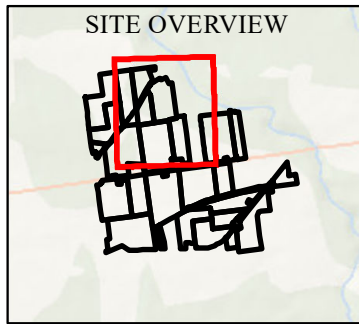
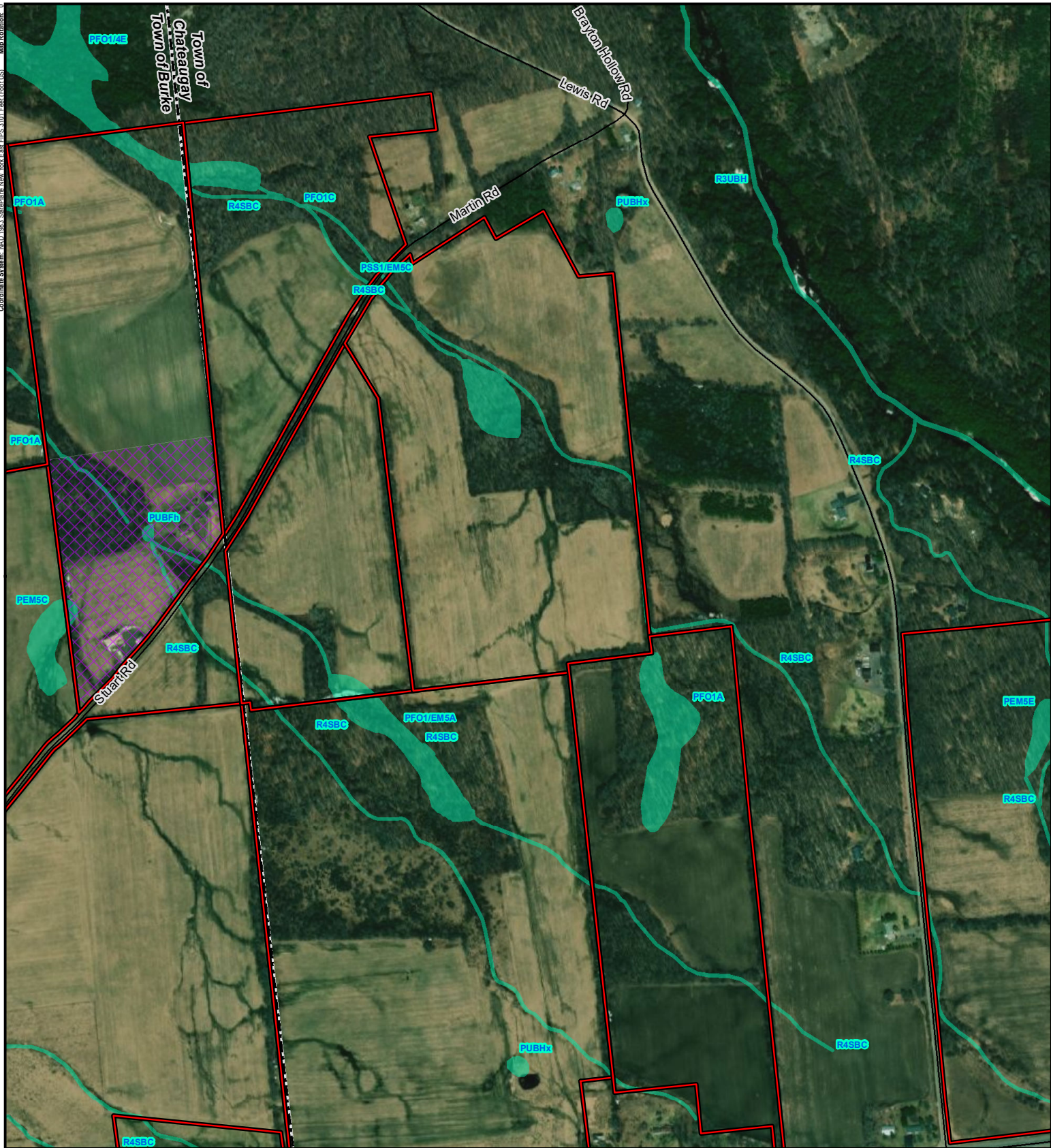
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TRC
215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

BROOKSIDE SOLAR

**FIGURE 4
SHEET 1 OF 7**

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Resolution: 0



LEGEND

- PROJECT AREA
- NON-LEASED PORTION OF PROJECT PARCEL
- WETLANDS (NW1)

1. BASEMAP IMAGERY FROM ESRI
"WORLD IMAGERY" MAP SERVICE
2. DATA SOURCES: USFWS 2020

1:8,000 0 500 1,000 Feet

1" = 667'

N

PROJECT: **BROOKSIDE SOLAR LLC**
TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN COUNTY, NY

TITLE: **NWI RESOURCES IN PROJECT AREA**

DRAWN BY: D. BARLEY PROJECT NO.: 373222

CHECKED BY: R. BARBER

APPROVED BY: H. EFFLER

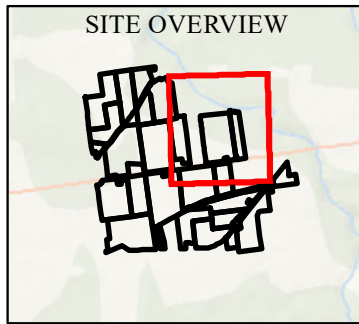
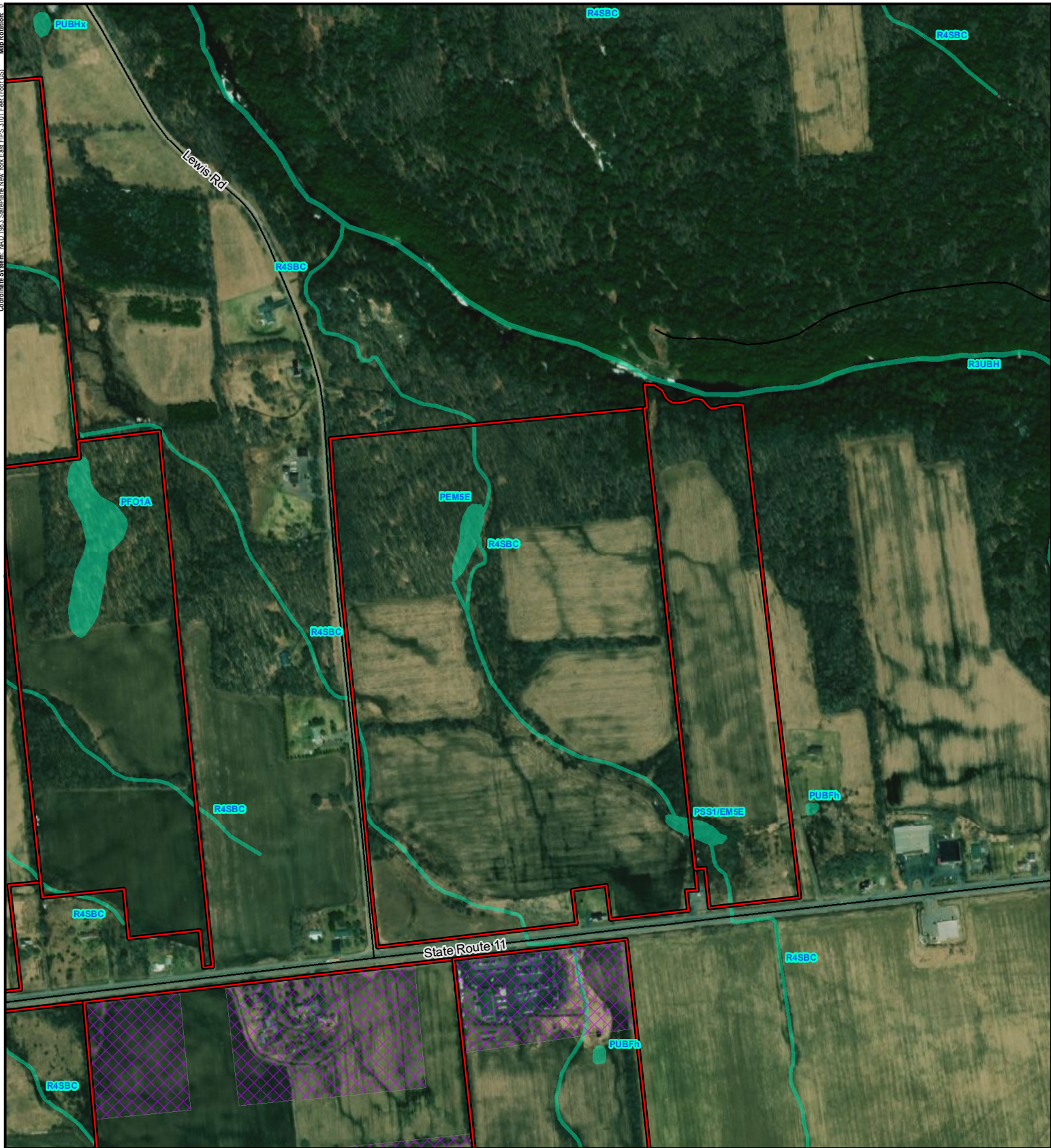
DATE: FEBRUARY 2021

FIGURE 4
SHEET 2 OF 7

TRC
215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

BROOKSIDE SOLAR

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



LEGEND

- PROJECT AREA
- NON-LEASED PORTION OF PROJECT PARCEL
- WETLANDS (NW1)

1. BASEMAP IMAGERY FROM ESRI
"WORLD IMAGERY" MAP SERVICE
2. DATA SOURCES: USFWS 2020

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1" = 667'

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PROJECT: **BROOKSIDE SOLAR LLC**
TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN COUNTY, NY

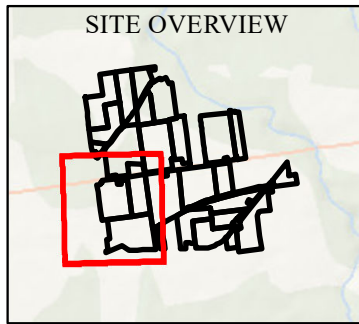
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APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	

215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

FIGURE 4
SHEET 3 OF 7

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



LEGEND

- PROJECT AREA
- NON-LEASED PORTION OF PROJECT PARCEL
- WETLANDS (NW1)

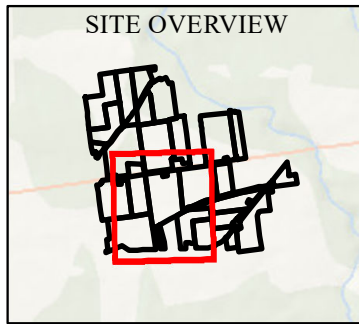
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PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NWI RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	FIGURE 4 SHEET 4 OF 7
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
TRC 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
BROOKSIDE SOLAR	

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



LEGEND

- PROJECT AREA
- NON-LEASED PORTION OF PROJECT PARCEL
- WETLANDS (NW1)

1. BASEMAP IMAGERY FROM ESRI
"WORLD IMAGERY" MAP SERVICE
2. DATA SOURCES: USFWS 2020

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1" = 667' Feet

PROJECT: **BROOKSIDE SOLAR LLC**
TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN COUNTY, NY

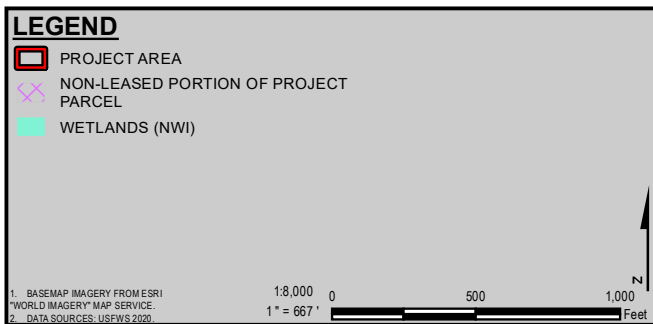
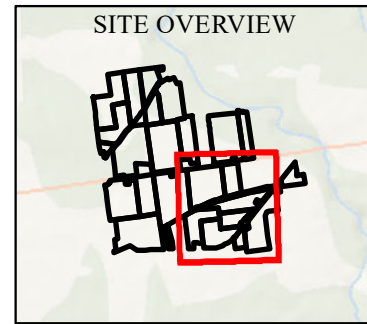
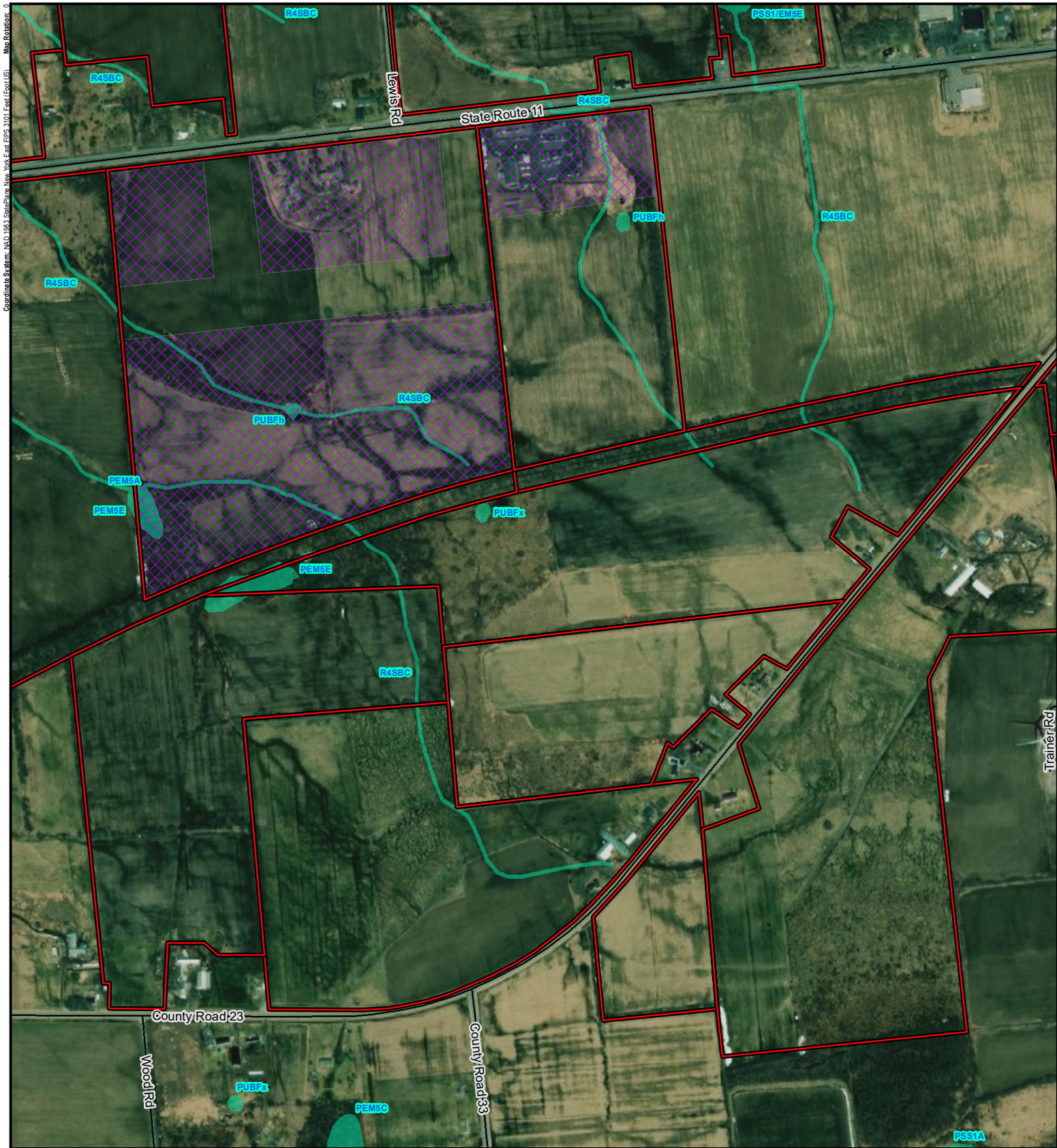
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DRAWN BY: D. BARLEY PROJECT NO.: 373222
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DATE: FEBRUARY 2021

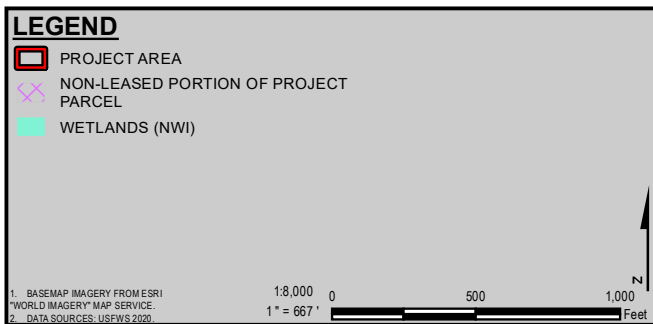
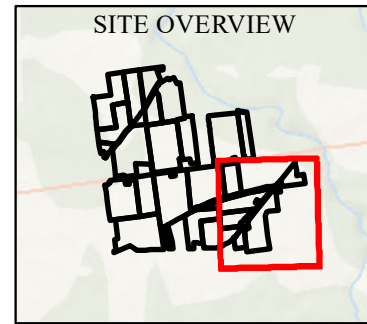
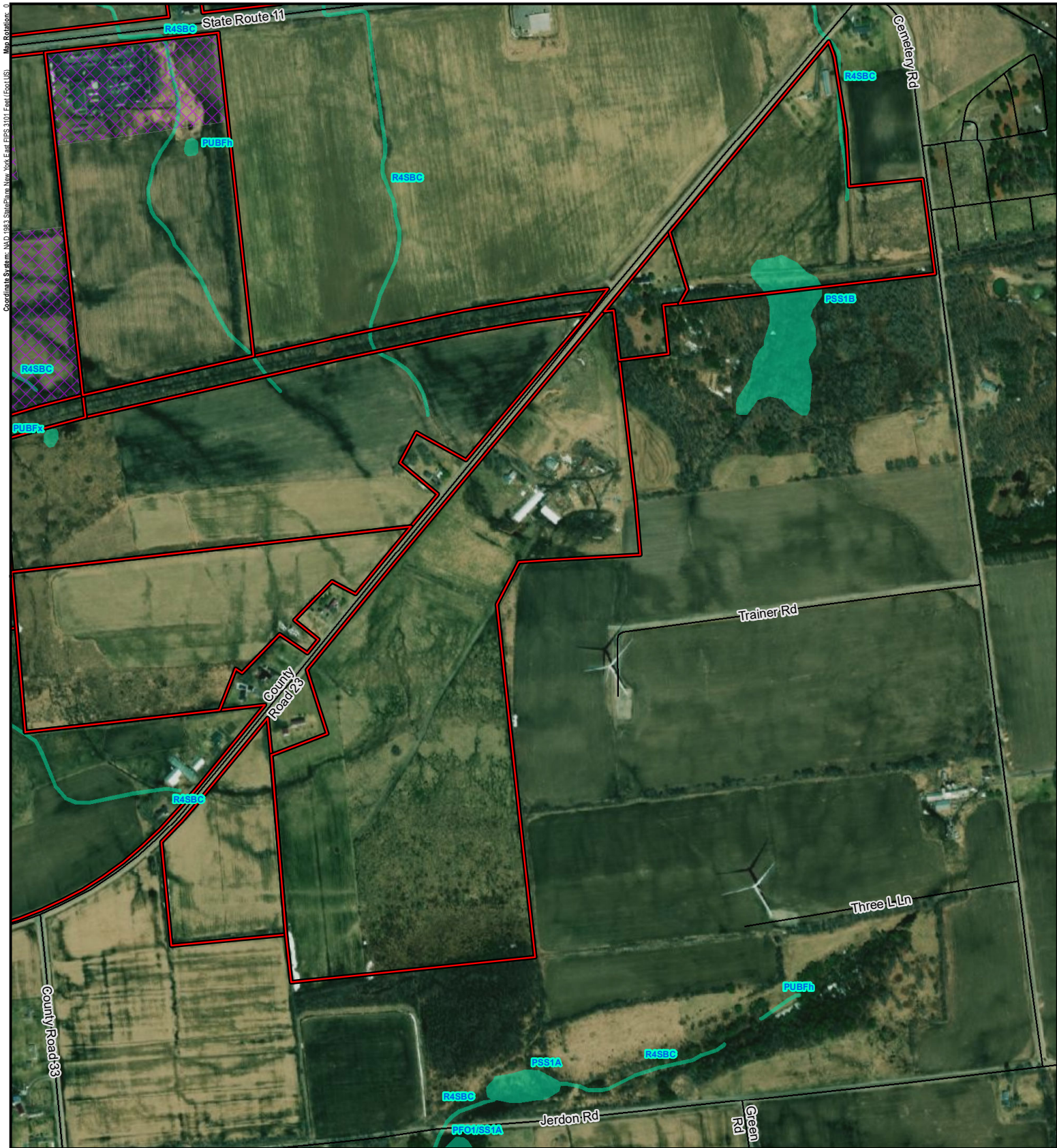
FIGURE 4
SHEET 5 OF 7

TRC
215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

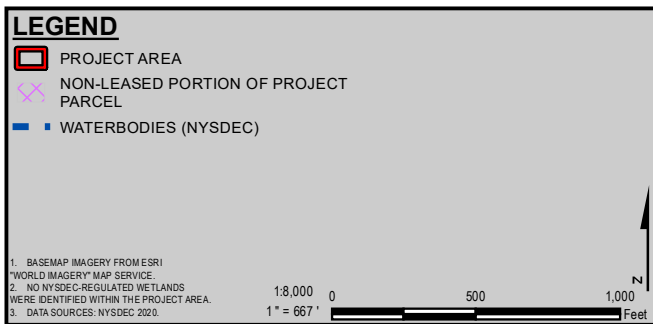
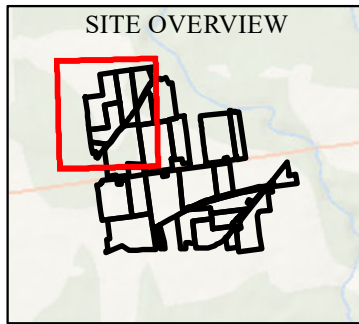
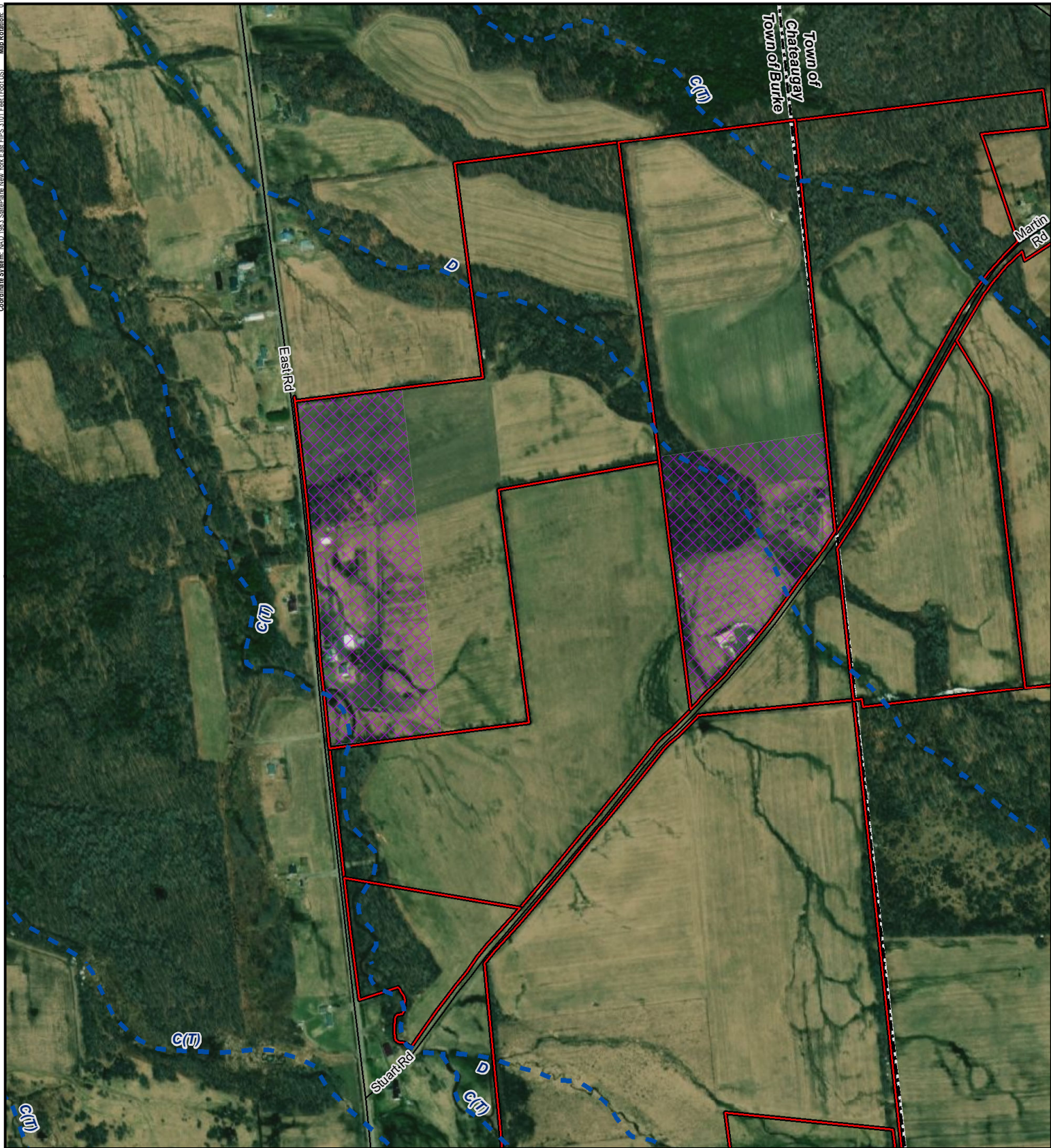
BROOKSIDE SOLAR



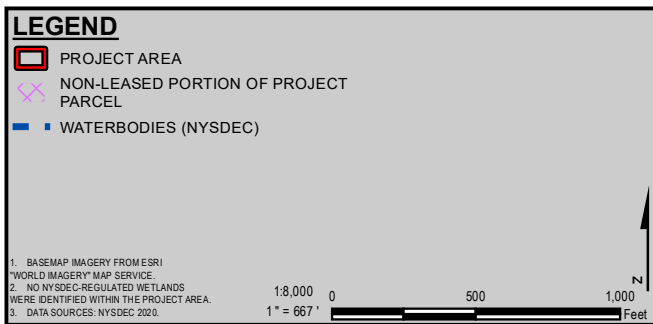
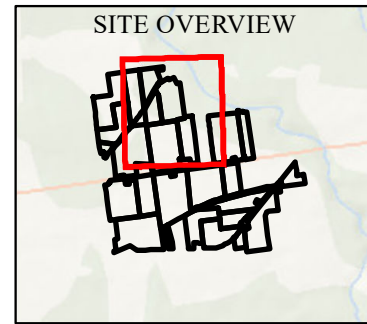
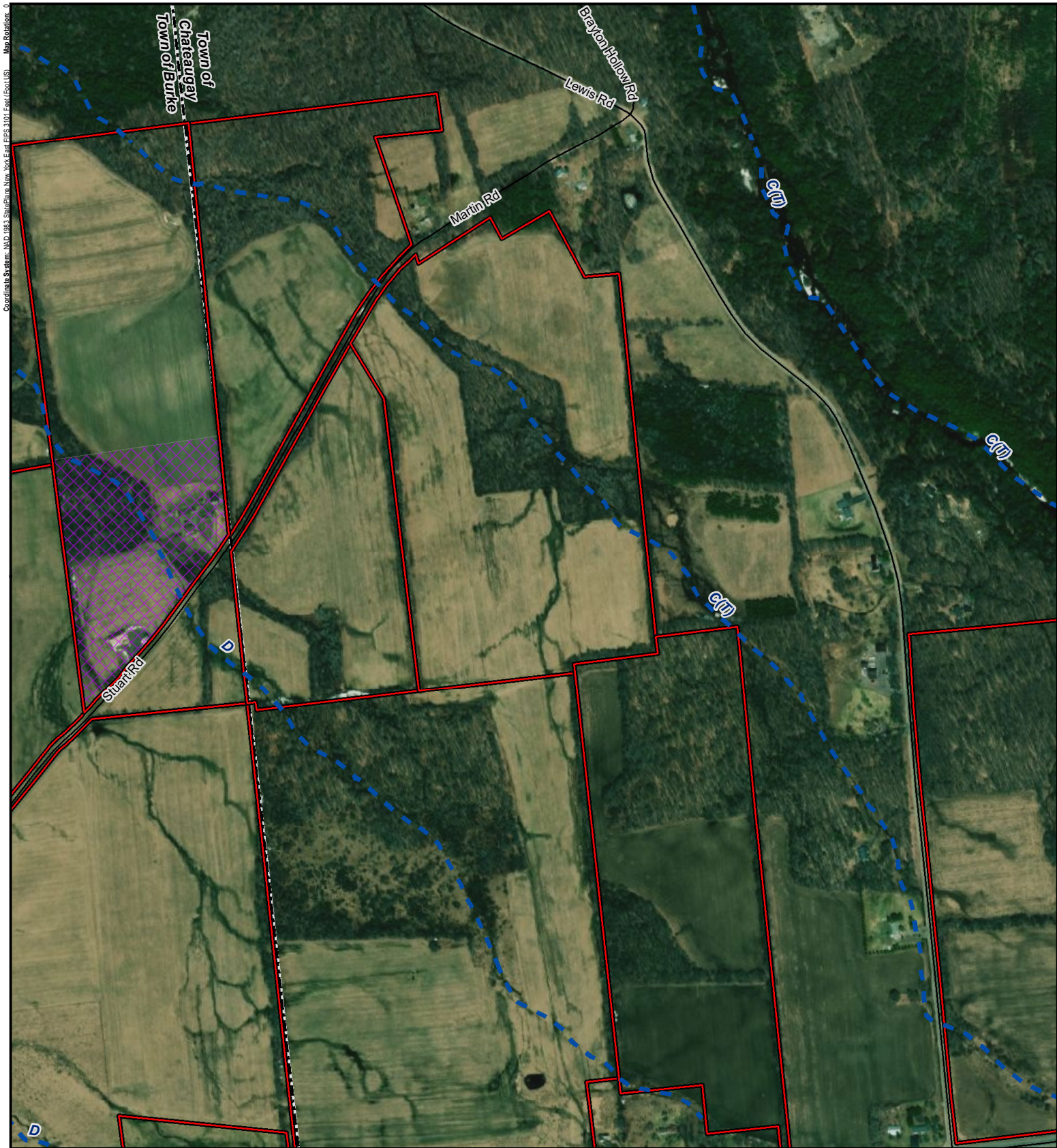
PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NWI RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	FIGURE 4 SHEET 6 OF 7





PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NWI RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	FIGURE 4 SHEET 7 OF 7

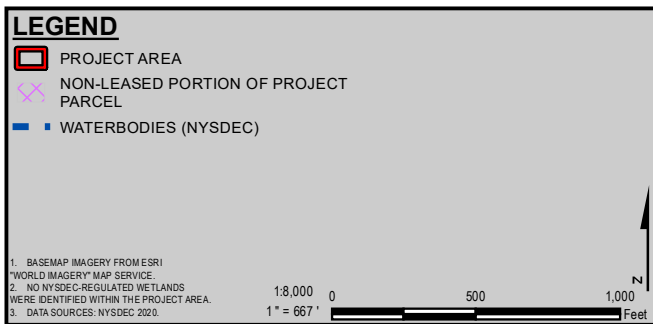
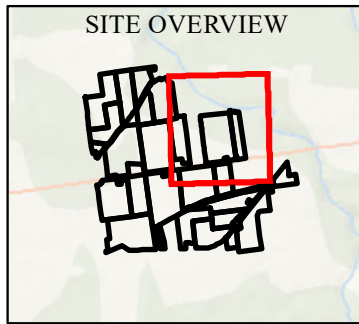
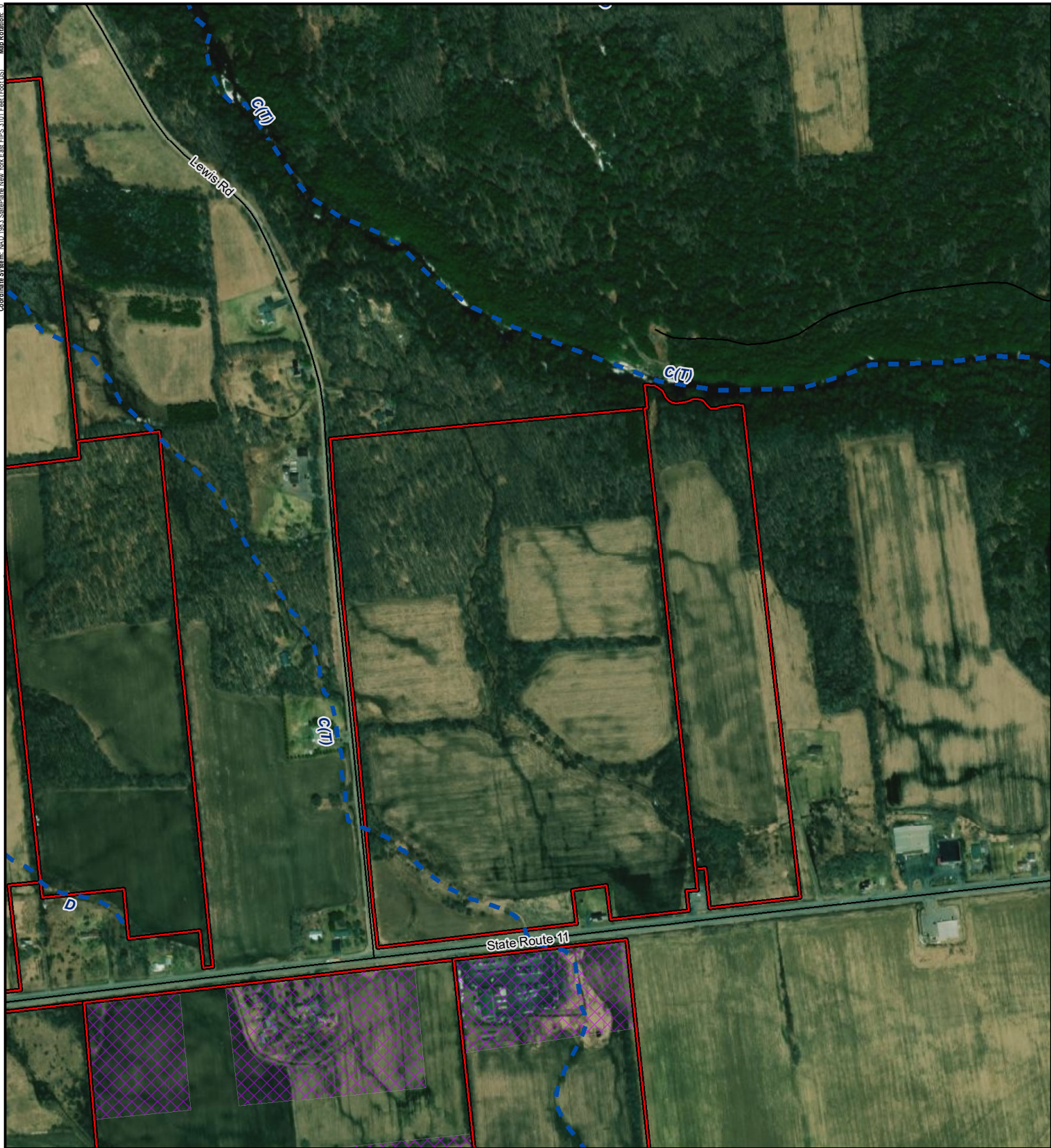


PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	 FIGURE 5 SHEET 1 OF 7



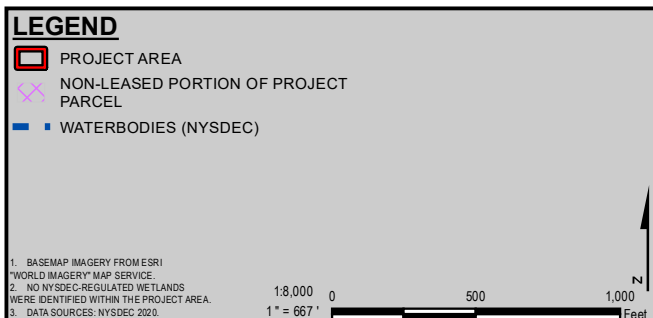
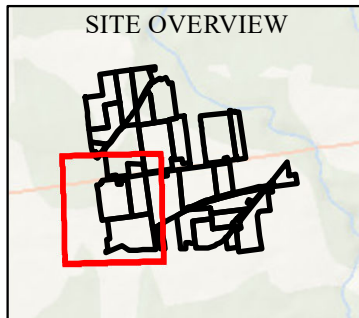
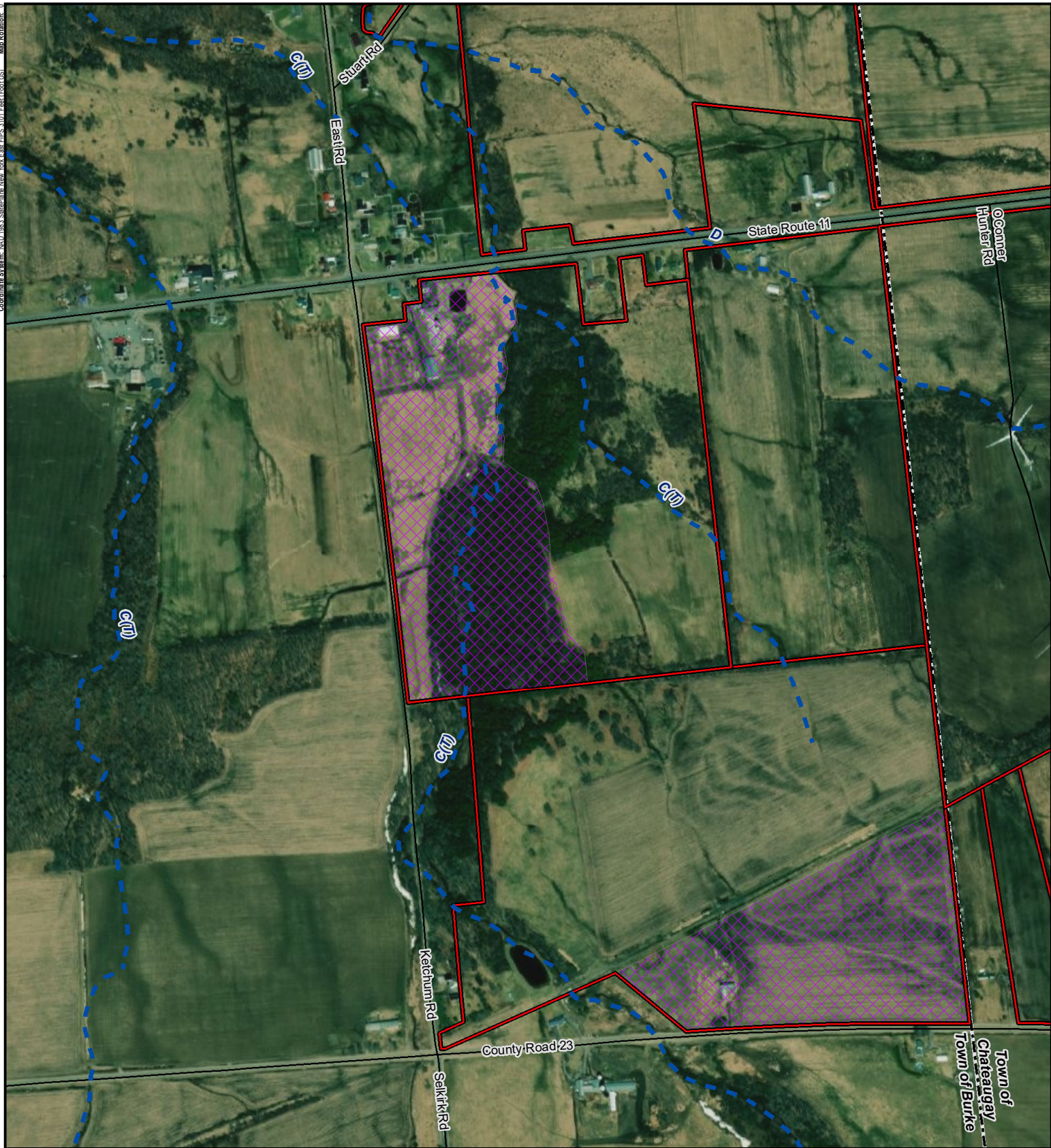
PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	 FIGURE 5 SHEET 2 OF 7

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



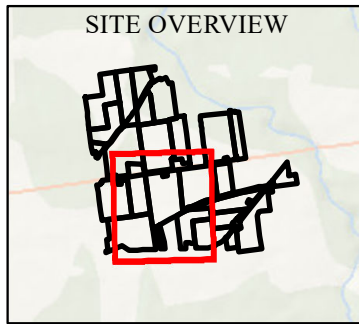
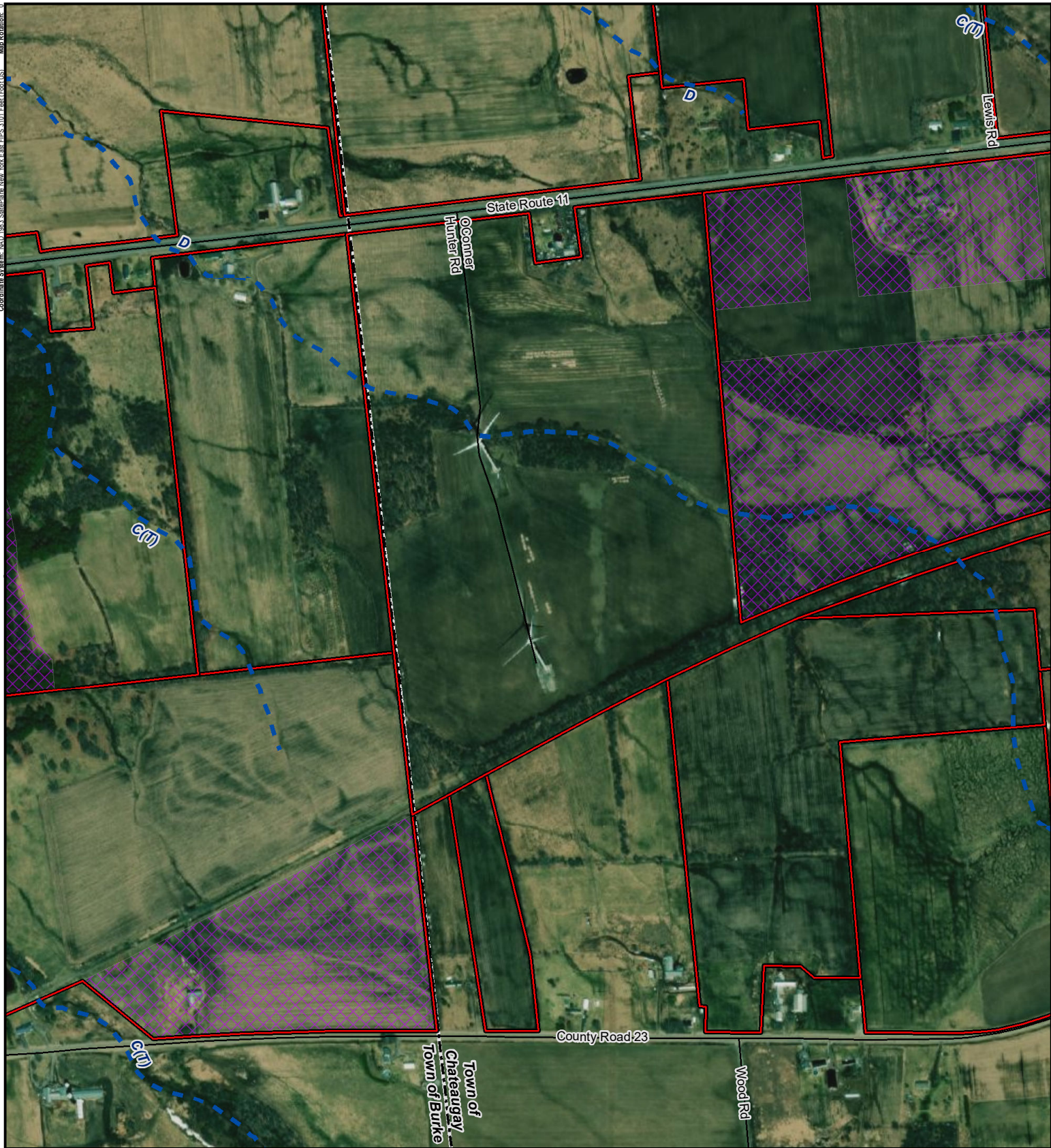
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TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
 FIGURE 5 SHEET 3 OF 7	

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
FIGURE 5 SHEET 4 OF 7	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US) Map Rotation: 0



LEGEND

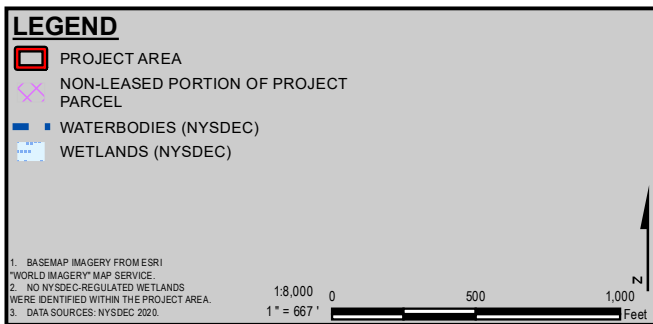
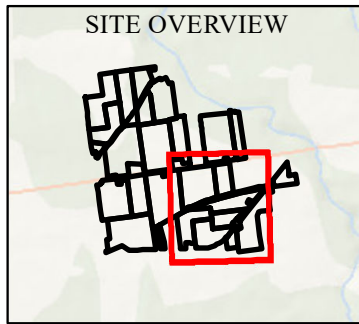
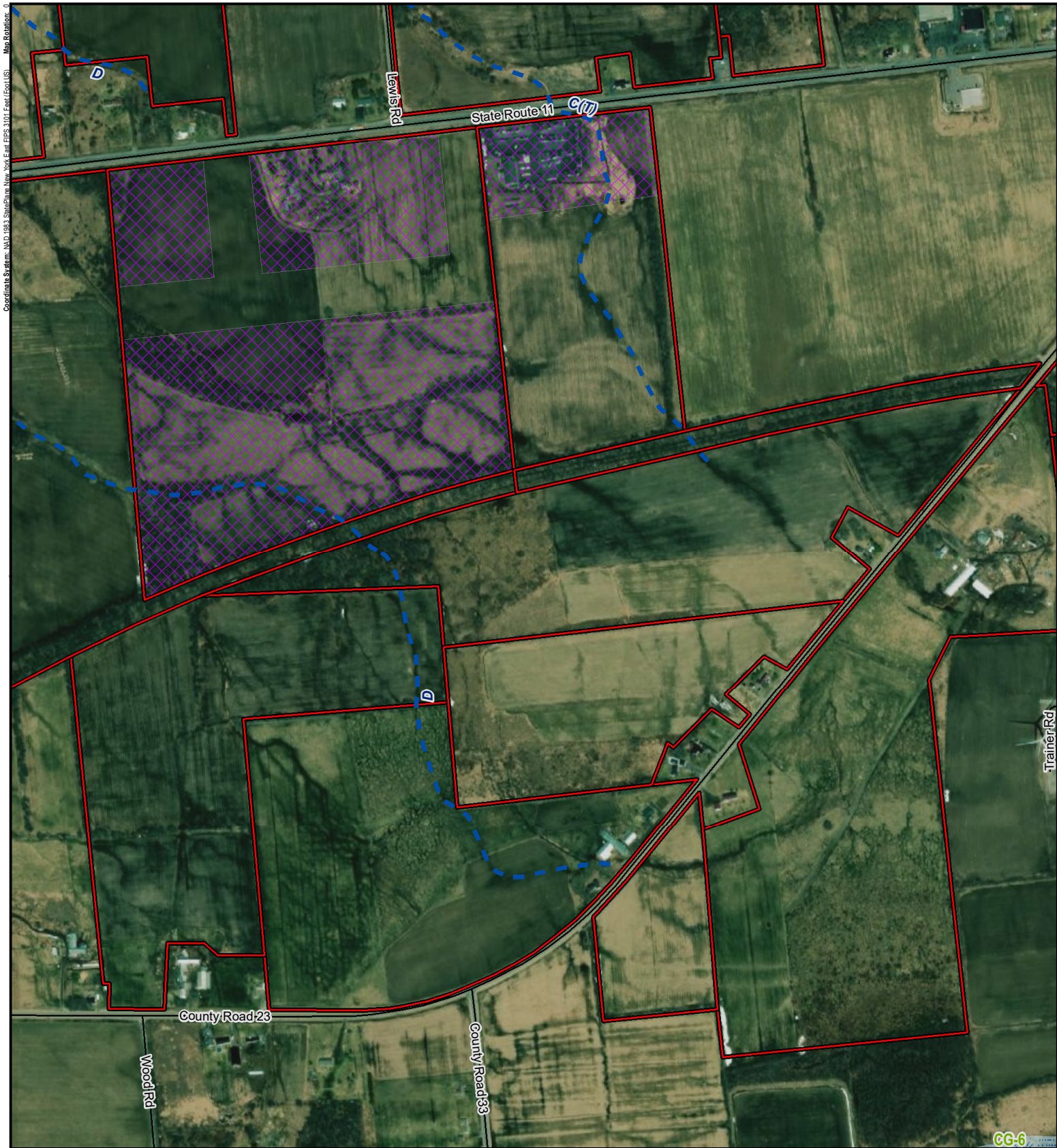
- PROJECT AREA
- NON-LEASED PORTION OF PROJECT PARCEL
- WATERBODIES (NYSDEC)

1. BASEMAP IMAGERY FROM ESRI
2. "WORLD IMAGERY" MAP SERVICE.
3. NO NYSDEC-REGULATED WETLANDS WERE IDENTIFIED WITHIN THE PROJECT AREA.
4. DATA SOURCES: NYSDEC 2020.

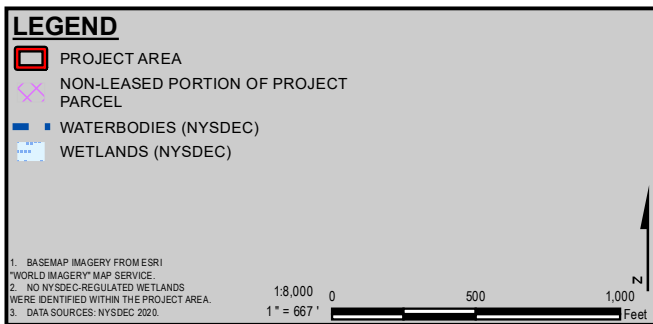
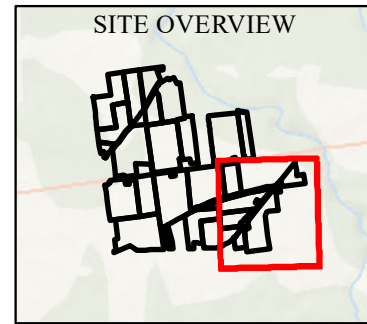
1:8,000 0 500 1,000
1" = 667' Feet



N

PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	 FIGURE 5 SHEET 5 OF 7



PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	FIGURE 5 SHEET 6 OF 7
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	

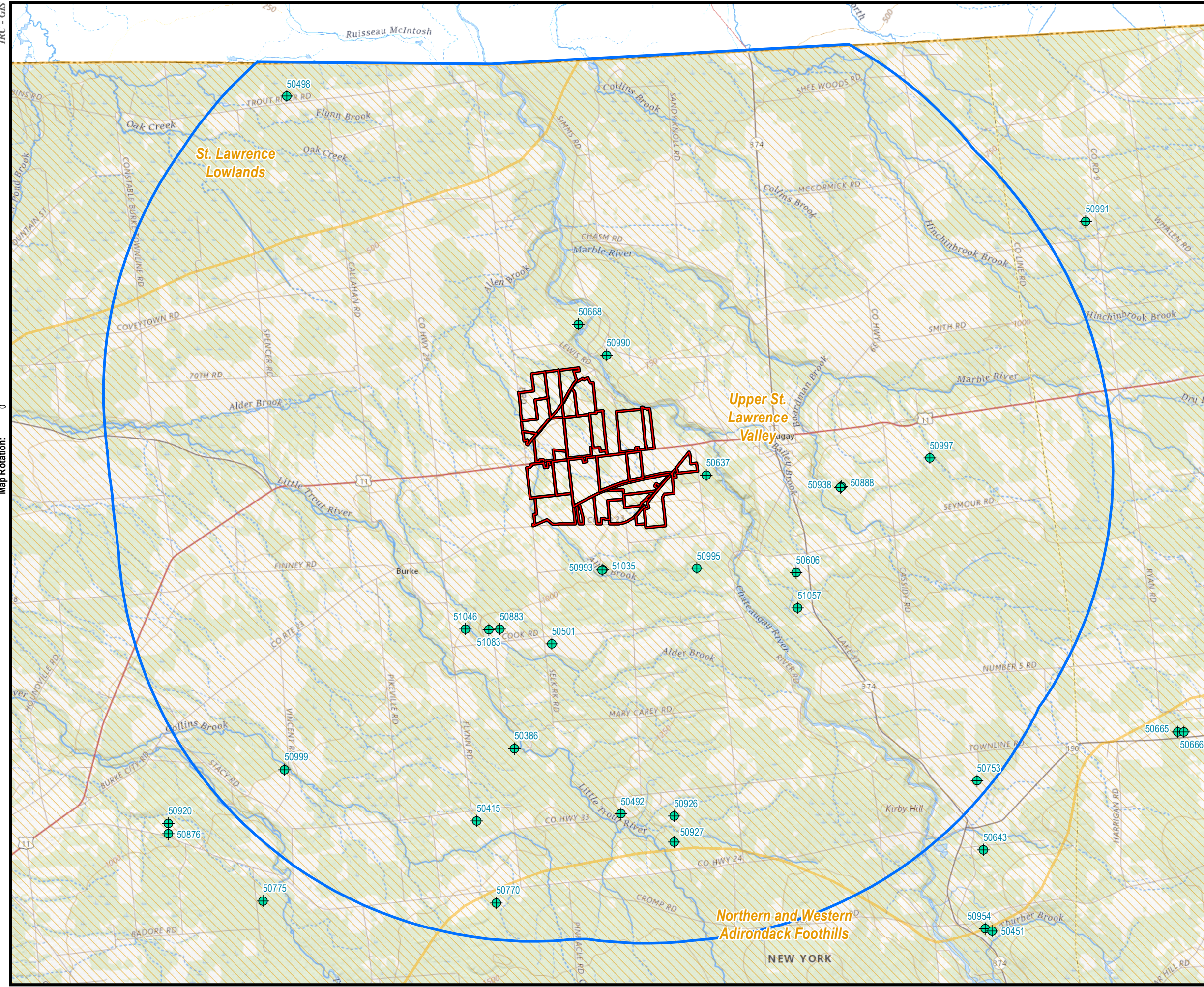


PROJECT: BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE: NYSDEC RESOURCES IN PROJECT AREA	
DRAWN BY: D. BARLEY	PROJECT NO.: 373222
CHECKED BY: R. BARBER	
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	
FIGURE 5 SHEET 7 OF 7	
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
	

TRC - GIS

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US)

Map Rotation: 0



LEGEND

- PROJECT AREA
- 5-MILE STUDY AREA
- NYSDEC MAPPED MINES AND QUARRIES
- NEW YORK STATE ECOREGIONS

NOTES

- ALL DATA GATHERED FROM THE FOLLOWING SOURCES: NYSGIS, NYSDEC, NYNHP, TRC.
- BASEMAP IMAGERY FROM USGS 'NATIONAL MAP', ESRI/USGS 2020.
- ACCORDING TO NYSDEC/NYNHP PUBLICLY AVAILABLE GIS DATA, THERE ARE NO KNOWN NLEB HIBERNACULA, OR SIGNIFICANT NATURAL COMMUNITIES IN THE STUDY AREA.

1" = 6,000'
1:72,000

PROJECT: **BROOKSIDE SOLAR LLC
TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN COUNTY, NY**

TITLE: **ECOREGIONS, NATURAL COMMUNITIES,
AND HIBERNACULA IN STUDY AREA**

DRAWN BY: D. BARLEY	PROJ NO: 373210
CHECKED BY: R. BARBER	FIGURE 6
APPROVED BY: H. EFFLER	
DATE: FEBRUARY 2021	

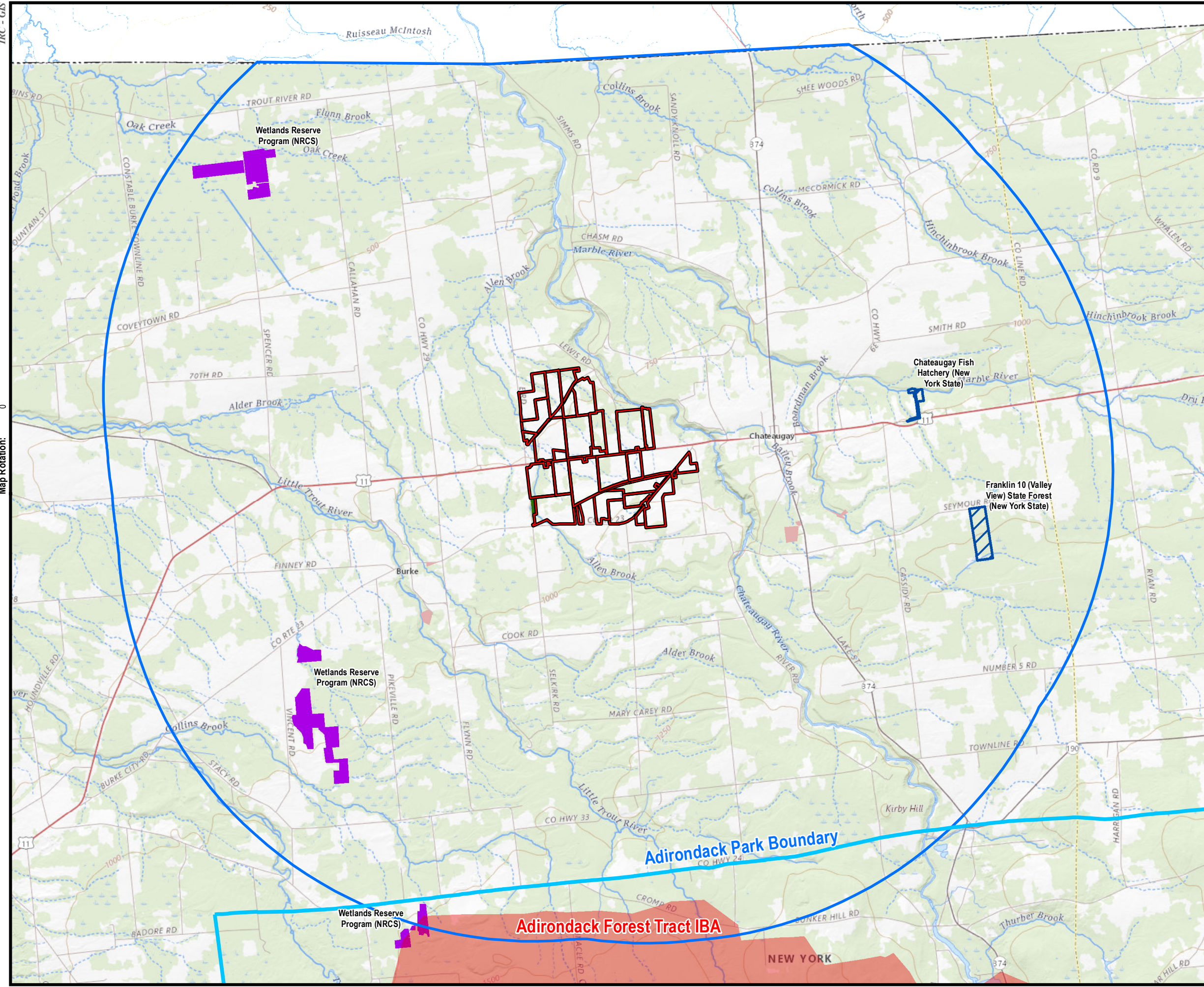
215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

FILE NO.: Brookside_94cWCR_Figure6_EcoregionsNHP_StudyArea_11x17.mxd

TRC - GIS

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US)

Map Rotation: 0

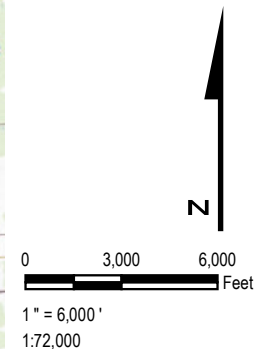


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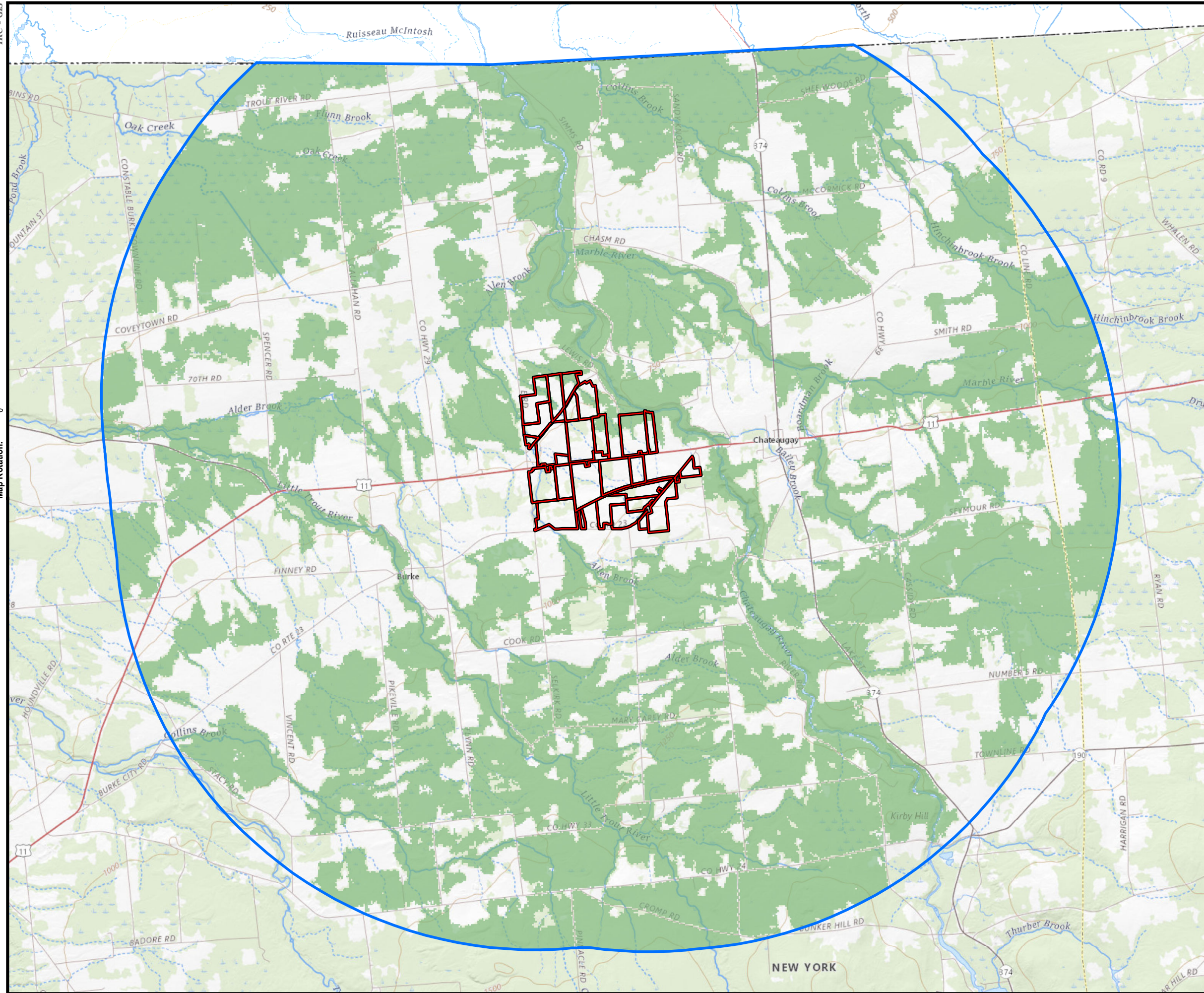
- PROJECT AREA
- 5-MILE STUDY AREA
- NATIONAL AUDUBON SOCIETY DESIGNATED IMPORTANT BIRD AREA (IBA)
- NATURAL RESOURCES CONSERVATION SERVICE (NRCS)
- STATE AGENCY
- COUNTY / REGIONAL AGENCY LAND
- LOCAL GOVERNMENT LAND

NOTES




- ALL DATA GATHERED FROM THE FOLLOWING SOURCES: USGS 2020, NYSGIS, NYSDEC, AUDUBON, TRC.
- BASEMAP IMAGERY FROM USGS 'NATIONAL MAP', ESRI/USGS 2020.
- THERE ARE NO DESIGNATED STATE CRITICAL ENVIRONMENTAL AREAS, STATE PARKS, STATE WILDLIFE MANAGEMENT AREAS, OR USFWS WILDLIFE REFUGES IN THE STUDY AREA.



PROJECT:		BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE:		PROTECTED OR CLASSIFIED LANDS IN STUDY AREA	
DRAWN BY:	D. BARLEY	PROJ NO.:	373210
CHECKED BY:	R. BARBER	FIGURE 7	
APPROVED BY:	H. EFFLER		
DATE:	FEBRUARY 2021		
TRC		215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088	
FILE NO.:		Brookside_94cWCR_Figure7_ProtectedLands_StudyArea_11x17.mxd	



LEGEND

-  PROJECT AREA
 5-MILE STUDY AREA
 CORE FOREST BLOCKS

NOTES

1. ALL DATA GATHERED FROM THE FOLLOWING SOURCES:
MRLC 2016.
2. CORE FOREST DEFINED AS CONTIGUOUS AREAS OF AT LEAST
150 ACRES IN SIZE IDENTIFIED AS FOREST OR WOODY WETLANDS.
3. BASEMAP IMAGERY FROM USGS 'NATIONAL MAP', ESRI/USGS 2020.



A horizontal scale bar with a black background and white markings. It is divided into three equal segments by white vertical lines. Above the bar, the numbers 0, 3,000, and 6,000 are written in black. To the right of the bar, the word "Feet" is written in black.

1" = 6,000'
1:72,000

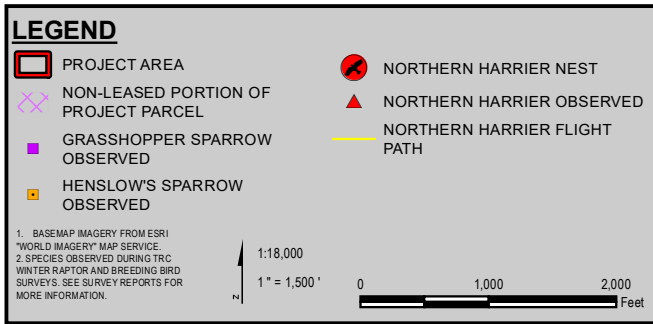
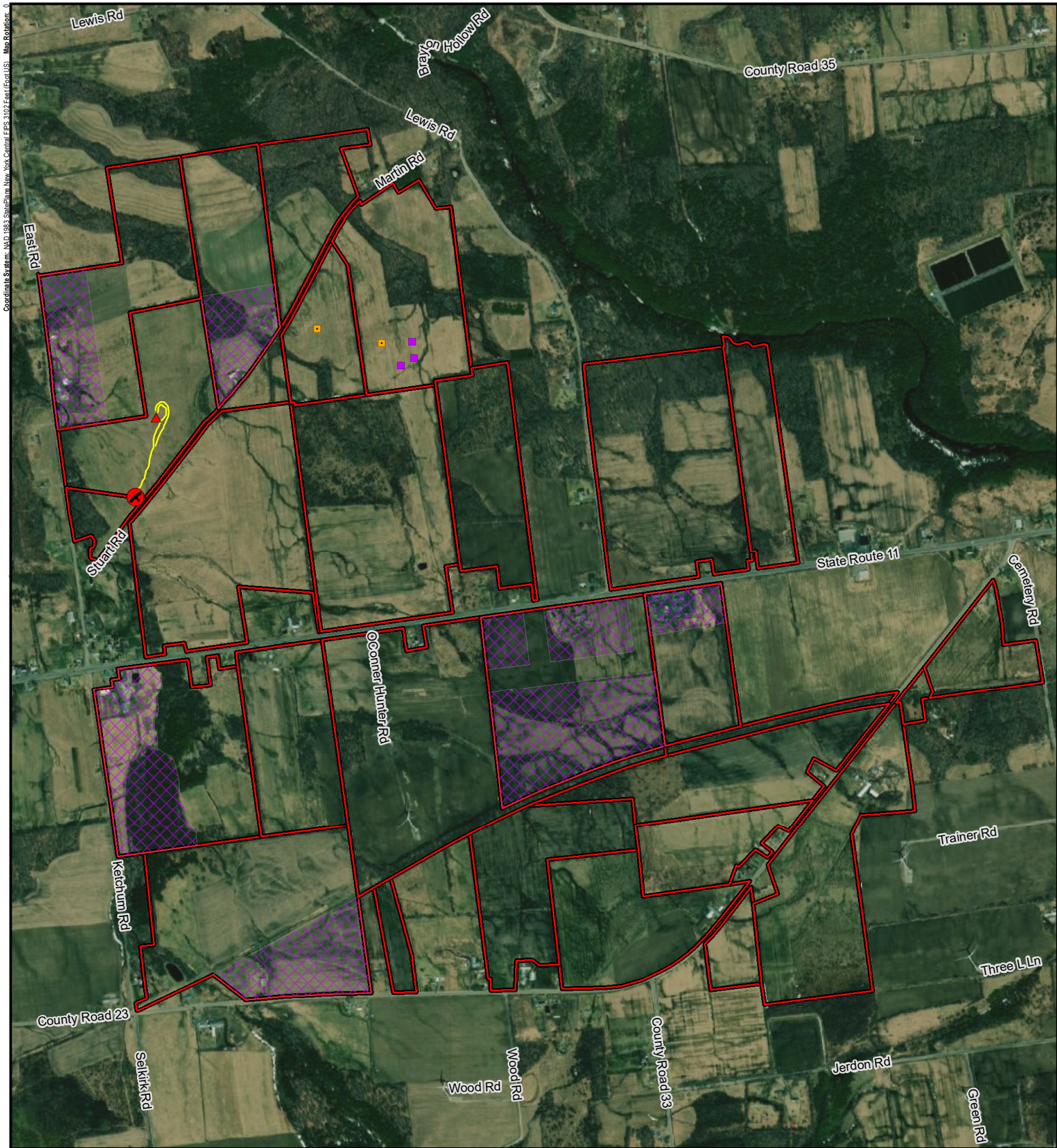


PROJECT:		BROOKSIDE SOLAR LLC TOWNS OF BURKE AND CHATEAUGAY FRANKLIN COUNTY, NY	
TITLE:			
CORE FOREST BLOCKS IN STUDY AREA			
DRAWN BY:	D. BARLEY	PROJ NO.:	373210
CHECKED BY:	R. BARBER	FIGURE 8	
APPROVED BY:	H. EFFLER		
DATE:	FEBRUARY 2021		



215 GREENFIELD PKWY, STE 102
LIVERPOOL, NY 13088

FILE NO.: Brookside_94cWCR_Figure8_CoreForest_StudyArea_11x17.mxd



PROJECT		BROOKSIDE SOLAR LLC	
		TOWNS OF BURKE AND CHATEAUGAY	
		FRANKLIN COUNTY, NY	
TITLE:		OBSERVED LISTED SPECIES IN PROJECT AREA	
DRAWN BY:	D. BARLEY	PROJECT NO.:	373210
CHECKED BY:	K. JOHNSON	FIGURE 9	
APPROVED BY:	H. EFFLER		
DATE:	FEBRUARY 2021		
 215 GREENFIELD PKWY, STE 102 LIVERPOOL, NY 13088			

Appendix B. Wildlife Inventory Tables

Table Number	Table Name
B-1	Avian Species Potentially Occurring within the Project Area and 5-Mile Study Area
B-2	Mammal Species Potentially Occurring within the Project Area and 5-Mile Study Area
B-3	Fish Species Potentially Occurring within the Project Area and 5-Mile Study Area
B-4	Reptile and Amphibian Species Potentially Occurring within the Project Area and 5-Mile Study Area

Table B-1. Avian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Nature Explorer List (Project Level)	NYSDEC Threatened, Endangered, SOSC List Species Assessments	Species Distribution Range in the NYSDEC SWAP ²	Observed by TRC Biologists (Breeding Bird and Winter Raptor Surveys)	USFWS - Birds of Conservation Concern	USGS Breeding Bird Survey (BBS Route 61105-West Bangor, NY)	NYS Breeding Bird Atlas III (Burke CE, Burke NW)	NYS Second Breeding Bird Atlas 2000-2005 (5697 A-D)	Audubon IBA (Adirondack Forest Tract) ³	eBird (Burke Falls Hotspot)	New York State Ornithological Association Database
Swans, Geese and Ducks	Anatidae												
Canada goose	Branta canadensis					X			X	X			
Wood duck	Aix sponsa												
Common merganser	Mergus merganser												
Hooded merganser	Lophodytes cucullatus									X	X		
Common goldeneye	Bucephala clangula	SGCN			X				X				
Green -winged teal	Anus crecca												
Blue-winged teal	Spatula discors	SGCN			X								
Ring-necked duck	Aythya collaris												
Northern pintail	Anas acuta	SGCN			X								
Northern shoveler	Spatula clypeata												
Gadwall	Anas strepera												
American black duck	Anas rubripes	HPSGCN		X	X	X		X			X		
Mallard x Am. black duck hybrid	Anas platyrhynchos x rubripes												
Mallard	Anas platyrhynchos					X				X			
Partridges, Grouse, & Turkeys	Phasianidae												
Ring-necked pheasant	Phasianus colchicus									X			
Gray partridge	Perdix perdix									X			
Ruffed grouse	Bonasa umbellus	SGCN		X	X	X				X	X		
Spruce grouse	Falcipennis canadensis	SE; SGCN			X						X		
Wild turkey	Meleagris gallopavo					X				X			
Loons	Gaviidae												
Common loon	Gavia immer	SOSC; SGCN	X	X	X						X		
Grebes	Podicipedidae												
Pied-billed grebe	Podilymbus podiceps	ST; SGCN		X	X								
Cormorants	Phalacrocoracidae												
Double-crested cormorant	Phalacrocorax auritus												
Bitterns, Herons, & Allies	Ardeidae												
American bittern	Botaurus lentiginosus	SOSC; SGCN		X	X								
Black-crowned night-heron	Nycticorax nycticorax	SGCN			X								
Great blue heron	Ardea herodias												
Cattle egret	Bubulcus ibis	HPSGCN		X									
Green heron	Butorides virescens								X				
Vultures	Cathartidae												
Turkey vulture	Cathartes aura					X			X	X			
Kites, Eagles, Hawks, & Allies	Accipitridae												
Golden Eagle	Aquila chrysaetos	SE; SGCN		X									
Broad-winged hawk	Buteo platypterus												
Northern harrier	Circus cyaneus	ST; SGCN		X	X	X				X			
Sharp-shinned hawk	Accipiter striatus	SOSC; SGCN		X							X		
Cooper's hawk	Accipiter cooperii	SOSC; SGCN		X		X					X		
Red-shouldered hawk	Buteo lineatus	SOSC; SGCN		X	X						X		
Northern goshawk	Accipiter gentilis	SOSC; SGCN		X	X						X		
Red-tailed hawk	Buteo jamaicensis					X				X	X		
Caracaras & Falcons	Falconidae												
Merlin	Falco columbarius												
Peregrine falcon	Falco peregrinus	SE; SGCN		X							X		
American kestrel	Falco sparverius	SGCN			X	X			X	X			
Rails, Gallinules, & Coots	Rallidae												
Virginia rail	Rallus limicola												
Sandhill crane	Grus canadensis												
Sora	Porzana carolina												
Plovers & Lapwings	Charidriidae												

Table B-1. Avian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Nature Explorer List (Project Level)	NYSDEC Threatened, Endangered, SOSC List Species Assessments	Species Distribution Range in the NYSDEC SWAP ²	Observed by TRC Biologists (Breeding Bird and Winter Raptor Surveys)	USFWS - Birds of Conservation Concern	USGS Breeding Bird Survey (BBS Route 61105-West Bangor, NY)	NYS Breeding Bird Atlas III (Burke CE, Burke NW)	NYS Second Breeding Bird Atlas 2000-2005 (5697 A-D)	Audubon IBA (Adirondack Forest Tract) ³	eBird (Burke Falls Hotspot)	New York State Ornithological Association Database
Killdeer	<i>Charadrius vociferus</i>					X			X	X			
Sandpipers, Phalaropes, & Allies	<i>Scolopacidae</i>												
American woodcock	<i>Scolopax minor</i>	SGCN			X					X	X		
Wilson's snipe	<i>Gallinago delicata</i>					X			X	X			
Semipalmated sandpiper	<i>Calidris pusilla</i>	HPSGCN					X						
Upland sandpiper	<i>Bartramia longicauda</i>	ST; HPSGCN		X	X								
Spotted sandpiper	<i>Actitis macularius</i>									X			
Skuas, Gulls, Terns, & Skimmers	<i>Laridae</i>												
Herring gull	<i>Larus argentatus</i>												
Common tern	<i>Sterna hirundo</i>	ST; SGCN		X	X								
Black tern	<i>Chlidonias niger</i>	SE, HPSGCN		X									
Pigeons & Doves	<i>Columbidae</i>												
Rock pigeon	<i>Columba livia</i>					X			X	X			
Mourning dove	<i>Zenaida macroura</i>					X			X	X		X	
Cuckoos, Roadrunners, & Anis	<i>Cuculidae</i>												
Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	SGCN			X		X			X			
Yellow-billed cuckoo	<i>Coccyzus americanus</i>												
Typical Owls	<i>Strigidae</i>												
Eastern screech-owl	<i>Megascops asio</i>									X			
Snowy owl	<i>Bubo scandiacus</i>												
Short-eared owl	<i>Asio flammeus</i>	SE; HPSGCN		X	X								
Northern Saw-whet owl	<i>Aegolius acadicus</i>												
Barred owl	<i>Strix varia</i>												
Long-eared owl	<i>Asio otus</i>	SGCN			X								
Great horned owl	<i>Bubo virginianus</i>									X			
Great gray owl	<i>Strix nebulosa</i>												X
Goatsuckers	<i>Caprimulgidae</i>												
Eastern whip-poor-will	<i>Antrostomus vociferus</i>	SOSC; HPSGCN		X	X					X			
Common nighthawk	<i>Chordeiles minor</i>	SOSC; HPSGCN		X									
Swifts	<i>Apodidae</i>									X			
Chimney swift	<i>Chaetura pelagica</i>												
Hummingbirds	<i>Trochilidae</i>												
Ruby-throated hummingbird	<i>Archilochus colubris</i>								X	X			
Kingfishers	<i>Alcedinidae</i>												
Belted kingfisher	<i>Megaceryle alcyon</i>									X		X	
Woodpeckers & Allies	<i>Picidae</i>												
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	SOSC; HPSGCN		X	X								
Black-backed woodpecker	<i>Picoides arcticus</i>												
American Three-toed woodpecker	<i>Picoides dorsalis</i>	SGCN											
Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>								X	X	X	X	
Downy woodpecker	<i>Picoides pubescens</i>								X	X			
Hairy woodpecker	<i>Picoides villosus</i>								X	X			
Northern flicker	<i>Colaptes auratus</i>							X	X	X			
Pileated woodpecker	<i>Dryocopus pileatus</i>					X			X	X			
Tyrant Flycatchers	<i>Tyrannidae</i>												
Eastern wood-pewee	<i>Contopus virens</i>					X			X	X	X		
Alder flycatcher	<i>Empidonax alnorum</i>					X		X	X	X			
Willow flycatcher	<i>Empidonax traillii</i>												
Olive-sided flycatcher	<i>Contopus cooperi</i>			X	X		X				X		
Least flycatcher	<i>Empidonax minimus</i>								X	X	X		
Eastern phoebe	<i>Sayornis phoebe</i>					X			X	X			
Great Crested flycatcher	<i>Myiarchus crinitus</i>					X			X	X	X		

Table B-1. Avian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Nature Explorer List (Project Level)	NYSDEC Threatened, Endangered, SOSC List Species Assessments	Species Distribution Range in the NYSDEC SWAP ²	Observed by TRC Biologists (Breeding Bird and Winter Raptor Surveys)	USFWS - Birds of Conservation Concern	USGS Breeding Bird Survey (BBS Route 61105-West Bangor, NY)	NYS Breeding Bird Atlas III (Burke CE, Burke NW)	NYS Second Breeding Bird Atlas 2000-2005 (5697 A-D)	Audubon IBA (Adirondack Forest Tract) ³	eBird (Burke Falls Hotspot)	New York State Ornithological Association Database
Yellow-bellied flycatcher	<i>Empidonax flaviventris</i>									X			
Eastern kingbird	<i>Tyrannus tyrannus</i>					X			X	X			
Vireos	<i>Vireonidae</i>												
Yellow-throated vireo	<i>Vireo flavifrons</i>												
Blue-headed vireo	<i>Vireo solitarius</i>									X	X		
Philadelphia vireo	<i>Vireo philadelphicus</i>												
Warbling vireo	<i>Vireo gilvus</i>								X	X			
Red-eyed vireo	<i>Vireo olivaceus</i>					X			X	X		X	
Jays, Magpies, & Crows	<i>Corvidae</i>												
Blue jay	<i>Cyanocitta cristata</i>					X			X	X		X	
Gray jay	<i>Perisoreus canadensis</i>			X									
Common raven	<i>Corvus corax</i>					X			X			X	
American crow	<i>Corvus brachyrhynchos</i>					X			X	X		X	
Larks	<i>Alaudidae</i>												
Horned lark	<i>Eremophila alpestris</i>	SOSC; HPSGCN		X	X					X			
Swallows	<i>Hirundinidae</i>												
Tree swallow	<i>Tachycineta bicolo</i>					X			X	X			
Bank swallow	<i>Riparia riparia</i>									X			
Cliff swallow	<i>Petrochelidon pyrrhonota</i>												
Northern Rough-winged swallow	<i>Stelgidopteryx serripennis</i>												
Barn swallow	<i>Hirundo rustica</i>					X			X	X		X	
Chickadees & Titmice	<i>Paridae</i>												
Black-capped chickadee	<i>Poecile atricapillus</i>					X			X	X			
Boreal chickadee	<i>Poecile hudsonicus</i>												
Tufted titmouse	<i>Baeolophus bicolo</i>												
Nuthatches	<i>Sittidae</i>												
Red-breasted nuthatch	<i>Sitta canadensis</i>									X			
White-breasted nuthatch	<i>Sitta carolinensis</i>					X			X	X			
Creepers	<i>Certhiidae</i>												
Brown creeper	<i>Certhia americana</i>									X			
Wrens	<i>Troglodytidae</i>												
House wren	<i>Troglodytes aedon</i>								X	X			
Sedge wren	<i>Cistothorus platensis</i>	ST; SGCN		X	X								
Winter wren	<i>Troglodytes hiemalis</i>					X							
Marsh wren	<i>Cistothorus palustris</i>												
Kinglets	<i>Regulidae</i>												
Golden-crowned kinglet	<i>Regulus satrapa</i>												
Ruby-crowned kinglet	<i>Regulus calendula</i>												
Thrushes	<i>Turdidae</i>												
Eastern bluebird	<i>Sialia sialis</i>					X				X			
Bicknell's thrush	<i>Catharus bicknelli</i>	SOSC; SGCN									X		
Veery	<i>Catharus fuscescens</i>					X			X	X	X		
Swainson's thrush	<i>Catharus ustulatus</i>												
Hermit thrush	<i>Catharus guttatus</i>								X	X			
Wood thrush	<i>Hylocichla mustelina</i>	SGCN			X		X		X	X	X		
American robin	<i>Turdus migratorius</i>					X			X	X		X	
Mockingbirds, Thrashers, & Allies	<i>Mimidae</i>												
Gray catbird	<i>Dumetella carolinensis</i>					X			X	X			
Northern mockingbird	<i>Mimus polyglottos</i>												
Brown thrasher	<i>Toxostoma rufum</i>	HPSGCN		X	X	X			X	X			
Starlings & Allies	<i>Sturnidae</i>												
European starling	<i>Sturnus vulgaris</i>					X			X	X		X	
Waxwings	<i>Bombycillidae</i>												
Cedar waxwing	<i>Bombycilla cedrorum</i>					X			X	X			

Table B-1. Avian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Nature Explorer List (Project Level)	NYSDEC Threatened, Endangered, SOSC List Species Assessments	Species Distribution Range in the NYSDEC SWAP ²	Observed by TRC Biologists (Breeding Bird and Winter Raptor Surveys)	USFWS - Birds of Conservation Concern	USGS Breeding Bird Survey (BBS Route 61105-West Bangor, NY)	NYS Breeding Bird Atlas III (Burke CE, Burke NW)	NYS Second Breeding Bird Atlas 2000-2005 (5697 A-D)	Audubon IBA (Adirondack Forest Tract) ³	eBird (Burke Falls Hotspot)	New York State Ornithological Association Database
Wood Warblers	Parulidae												
Blue-winged warbler	Vermivora pinus	SGCN											
Brewster's warbler	Vermivora cyanoptera x chrysoptera												
Golden-winged warbler	Vermivora chrysoptera	SOSC; HPSGCN		X	X								
Canada warbler	Cardellina canadensis	HPSGCN		X	X		X				X		
Yellow warbler	Dendroica petechia					X			X	X			
Yellow-rumped warbler	Setophaga coronata									X			
Chestnut-sided warbler	Dendroica pensylvanica					X			X	X	X		
Black-and-White warbler	Mniotilta varia					X			X		X		
Nashville warbler	Leiothlypis ruficapilla												
Tennessee warbler	Leiothlypis peregrina	SGCN; SPCN							X				
Backpoll warbler	Setophaga striata								X		X		
Blackburnian warbler	Setophaga fusca								X		X		
Black-throated green warbler	Setophaga virens								X	X	X		
Black-throated blue warbler	Setophaga caerulescens	SGCN			X						X		
Palm warbler	Setophaga palmarum												
American redstart	Setophaga ruticilla								X	X	X		
Ovenbird	Seiurus aurocapilla					X			X	X	X		
Northern parula	Setophaga americana										X		
Northern waterthrush	Parkesia noveboracensis								X		X		
Wilson's warbler	Cardellina pusilla												
Lawrence's warbler	Vermivora chrysoptera x cyanoptera												
Bay-breasted warbler	Setophaga castanea	SGCN									X		
Pine warbler	Setophaga pinus	SGCN											
Magnolia warbler	Setophaga magnolia									X			
Cape May warbler	Setophaga tigrina			X			X						
Mourning warbler	Oporornis philadelphia												
Common yellowthroat	Geothlypis trichas					X			X	X			
Tanagers	Thraupidae												
Scarlet tanager	Piranga olivacea	SGCN			X	X			X	X	X		
Towhees, Buntings, Sparrows, & Allies	Emberizidae												
Eastern towhee	Pipilo erythrophthalmus									X			
Field sparrow	Spizella pusilla												
Vesper sparrow	Poocetes gramineus	SOSC; HPSGCN		X	X					X			
Savannah sparrow	Passerculus sandwichensis					X			X	X			
Henslow's sparrow	Ammodramus henslowii	ST; HPSGCN				X							
Grasshopper sparrow	Ammodramus savannarum	SOSC; HPSGCN		X	X	X							
Song sparrow	Melospiza melodia					X			X	X			
Swamp sparrow	Melospiza georgiana								X	X			
Grosbeaks & Buntings	Cardinalidae												
Northern cardinal	Cardinalis cardinalis					X			X	X			
Rose-breasted grosbeak	Pheucticus ludovicianus								X	X	X		
Indigo bunting	Passerina cyanea								X	X			
Blackbirds	Icteridae												
bobolink	Dolichonyx oryzivorus	HPSGCN		X	X	X	X		X	X			
Red-winged blackbird	Agelaius phoeniceus					X			X	X			
Rusty blackbird	Euphagus carolinus	HPSGCN		X	X		X		X				
Eastern meadowlark	Sturnella magna	HPSGCN		X	X	X			X	X			
Common grackle	Quiscalus quiscula					X			X	X		X	
Brown-headed cowbird	Molothrus ater								X	X			
Baltimore oriole	Icterus galbula								X	X			
Finches	Fringillidae												

Table B-1. Avian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Nature Explorer List (Project Level)	NYSDEC Threatened, Endangered, SOSC List Species Assessments	Species Distribution Range in the NYSDEC SWAP ²	Observed by TRC Biologists (Breeding Bird and Winter Raptor Surveys)	USFWS - Birds of Conservation Concern	USGS Breeding Bird Survey (BBS Route 61105-West Bangor, NY)	NYS Breeding Bird Atlas III (Burke CE, Burke NW)	NYS Second Breeding Bird Atlas 2000-2005 (5697 A-D)	Audubon IBA (Adirondack Forest Tract) ³	eBird (Burke Falls Hotspot)	New York State Ornithological Association Database
Purple finch	<i>Carpodacus purpureus</i>								X	X	X		
House finch	<i>Carpodacus mexicanus</i>								X	X			
Evening grosbeak	<i>Coccothraustes vespertinus</i>						X			X			
Pine siskin	<i>Spinus pinus</i>												
Red crossbill	<i>Loxia curvirostra</i>												
White-winged crossbill	<i>Loxia leucoptera</i>												
American goldfinch	<i>Carduelis tristis</i>					X			X	X			
Old World Sparrows	<i>Passeridae</i>												
Dark-eyed junco	<i>Junco hyemalis</i>									X			
White-throated sparrow	<i>Zonotrichia albicollis</i>					X			X	X			
House sparrow	<i>Passer domesticus</i>								X	X			
New World Sparrows	<i>Passerellidae</i>												
Chipping sparrow	<i>Spizella passerina</i>								X	X			
Lincoln's sparrow	<i>Melospiza lincolnii</i>												
Ospreys	<i>Pandionidae</i>												
Osprey	<i>Pandion haliaetus</i>	SOSC; SGCN		X							X		

¹ FT = Federally Threatened; ST = State Threatened; SOSC = Species of Special Concern; HPSGCN = High Priority Species of Greatest Conservation Need; SPCN = Species of Potential Conservation Need; SGCN = Species of Greatest Conservation Need.

² The NYDESC SWAP distribution data utilizes NatureServe, Cornell Lab of Ornithology, and the Second Atlas of Breeding Birds in New York databases.

³ No Christmas Bird Counts were completed for the Study Area.

Sources: Audubon 2021; TRC 2020a,b; eBird 2021; NYBBA III 2020a,b; NYNHP 2019; NYSDEC 2015, 2019, 2020a,c, 2021a,g; USFWS 2020b; NYSOA 2021

Table B-2. Mammal Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	USFWS Online Database (IPaC)	NYSDEC Nature Explorer	NYSDEC Mammals Range Maps and Descriptions	Bat Conservation International	Species Distribution Range in the NYSDEC SWAP
Deer	Cervidae						
White-tailed deer	<i>Odocoileus virginianus</i>	SPCN					
Squirrels	Sciuridae						
Eastern gray squirrel	<i>Sciurus carolinensis</i>				X		
Northern flying squirrel	<i>Glaucomys sabrinus</i>				X		
Groundhog	<i>Marmota monax</i>				X		
Eastern chipmunk	<i>Tamias striatus</i>				X		
Rabbits and Hares	Leporidae						
Eastern cottontail	<i>Sylvilagus floridanus</i>				X		
Weasels	Mustelidae						
American mink	<i>Neovison vison</i>				X		
River otter	<i>Lontra canadensis</i>				X		
Long-tailed weasel	<i>Mustela frenata</i>				X		
Fisher	<i>Pekania pennanti</i>				X		
Least weasel	<i>Mustela nivalis</i>	SPCN			X		
Racoons	Procyonidae						
Eastern raccoon	<i>Procyon lotor lotor</i>				X		
New World Porcupines	Erethizontidae						
North American porcupine	<i>Erethizon dorsatum</i>				X		
Canids	Canidae						
Coyote	<i>Canis latrans</i>				X		
Gray fox	<i>Urocyon cinereoargenteus</i>				X		
Red fox	<i>Vulpes vulpes</i>				X		
Possums	Didelphidae						
Virginia opossum	<i>Didelphis virginiana</i>				X		
Beavers	Castoridae						
American beaver	<i>Castor canadensis</i>				X		
Muskrats	Cricetidae						
Muskrats	<i>Ondatra zibethicus</i>				X		
Skunk and stink badgers	Mephitidae						
Striped skunk	<i>Mephitis mephitis</i>				X		
Felids	Felidae						
Bobcat	<i>Lynx rufus</i>				X		
Moles	Talpidae						
Hairy-tailed mole	<i>Parascalops breweri</i>				X		
Star-nosed mole	<i>Condylura cristata</i>				X		
Eastern mole	<i>Scalopus aquaticus</i>				X		
Mice	Mus						

Table B-2. Mammal Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	USFWS Online Database (IPaC)	NYSDEC Nature Explorer	NYSDEC Mammals Range Maps and Descriptions	Bat Conservation International	Species Distribution Range in the NYSDEC SWAP
White-footed deermouse	<i>Peromyscus leucopus</i>				X		
Shrews	Soricidae						
American pygmy shrew	<i>Sorex hoyi</i>	SPCN					
Bats							
Northern long-eared bat	<i>Myotis septentrionalis</i>	FT; ST; HPSGCN	X	X	X	X	X
Little brown myotis (Little brown bat)	<i>Myotis lucifugus</i>	HPSGCN			X	X	X
Tri-colored bat (Eastern pipistrelle)	<i>Perimyotis subflavus</i>	HPSGCN			X		X
Big brown bat	<i>Eptesicus fuscus</i>					X	
Small-footed bat	<i>Myotis leibii</i>	SOSC; SGCN			X		X
Eastern red bat	<i>Lasiurus borealis</i>	SGCN				X	X
Silver-haired bat	<i>Lasionycteris noctivagans</i>	SGCN				X	X
Hoary bat	<i>Lasiurus cinereus</i>	SGCN				X	X
Indiana myotis (Indiana bat)	<i>Myotis sodalis</i>	SE; HPSGCN				X	

¹ FT = Federally Threatened; ST = State Threatened; SE = State Endangered; SOSC = Species of Special Concern; HPSGCN = High Priority Species of Greatest Conservation Need; SPCN = Species of Potential Conservation Need; SGCN = Species of Greatest Conservation Need.

Sources: NYSDEC 2015, 2018, 2019, 2020a,c, 2021a, e,g; USFWS 2020b; BCI 2020.

Table B-3. Fish Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Statewide Fisheries Database/Fish Atlas Maps of New York	Species Distribution Range in the NYSDEC SWAP
Lampreys	<i>Petromyzontidae</i>			
Sea lamprey	<i>Petromyzon marinus</i>		X	
Sturgeons	<i>Acipenseridae</i>			
Lake sturgeon	<i>Acipenser fulvescens</i>		X	
Gars	<i>Lepisosteidae</i>			
Longnose gar	<i>Lepisosteus osseus</i>		X	
Bowfins	<i>Amiidae</i>			
Bowfin	<i>Amia calva</i>		X	
Codfish	<i>Gadidae</i>			
Burbot	<i>Lota lota</i>		X	
Freshwater Eels	<i>Anguillidae</i>			
American eel	<i>Anguilla rostrata</i>	HPSGCN	X	X
Herrings	<i>Clupeidae</i>			
Alewife	<i>Alosa pseudoharengus</i>		X	
Gizzard shad	<i>Dorosoma cepedianum</i>		X	
Minnows and Carps	<i>Cyprinidae</i>			
Allegheny pearl dace	<i>Margariscus margarita</i>		X	
Blackchin shiner	<i>Notropis heterodon</i>	HPSGCN	X	X
Blacknose shiner	<i>Notropis heterolepis</i>		X	
Bluntnose minnow	<i>Pimephales notatus</i>		X	
Bridle shiner	<i>Notropis bifrenatus</i>		X	
Central stoneroller	<i>Campostoma anomalum</i>		X	
Common carp	<i>Cyprinus carpio</i>		X	
Common shiner	<i>Luxilus cornutus</i>		X	
Creek chub	<i>Semotilus atromaculatus</i>		X	
Cutlip minnow	<i>Exoglossum maxillingua</i>		X	
Eastern Blacknose dace	<i>Rhinichthys atratulus</i>		X	
Eastern Silvery minnow	<i>Hybognathus regis</i>		X	
Emerald shiner	<i>Notropis atherinoides</i>		X	
Fallfish	<i>Semotilus corporalis</i>		X	
Fathead minnow	<i>Pimephales promelas</i>		X	
Golden shiner	<i>Notemigonus crysoleucas</i>		X	
Goldfish	<i>Carassius auratus</i>		X	
Longnose dace	<i>Rhinichthys cataractae</i>		X	
Northern pearl dace	<i>Margariscus nachtriebi</i>		X	
Northern Redbelly dace	<i>Phoxinus eos</i>		X	
Redside dace	<i>Clinostomus elongatus</i>		X	
Sand shiner	<i>Notropis stramineus</i>		X	
Satinfin shiner	<i>Cyprinella analostana</i>		X	
Spotfin shiner	<i>Cyprinella spiloptera</i>		X	

Table B-3. Fish Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Statewide Fisheries Database/Fish Atlas Maps of New York	Species Distribution Range in the NYSDEC SWAP
Spottail shiner	<i>Notropis hudsonius</i>		X	
Suckers	Catostomidae			
Greater redhorse	<i>Moxostoma valenciennesi</i>		X	
Longnose sucker	<i>Catostomus catostomus</i>	HPSGCN	X	
Northern Hog sucker	<i>Hypentelium nigricans</i>		X	
Quillback	<i>Carpionodes cyprinus</i>		X	
Spotted sucker	<i>Minytrema melanops</i>		X	
White sucker	<i>Catostomus commersonii</i>		X	
Catfishes	Ictaluridae			
Brown bullhead	<i>Ameiurus nebulosus</i>		X	
Channel catfish	<i>Ictalurus punctatus</i>		X	
Margined madtom	<i>Noturus insignis</i>		X	
Stonecat	<i>Noturus flavus</i>		X	
Tadpole madtom	<i>Noturus gyrinus</i>		X	
Yellow bullhead	<i>Ameiurus natalis</i>		X	
Smelts	Osmeridae			
Rainbow smelt	<i>Osmerus mordax</i>		X	
Trouts	Salmonidae			
Atlantic salmon	<i>Salmo salar</i>		X	
Brook trout	<i>Salvelinus fontinalis</i>		X	
Brown trout	<i>Salmo trutta</i>		X	
Chinook salmon	<i>Oncorhynchus tshawytscha</i>		X	
Cisco	<i>Coregonus artedii</i>		X	
Coho salmon	<i>Oncorhynchus kisutch</i>		X	
Lake whitefish	<i>Coregonus clupeaformis</i>		X	
Rainbow trout	<i>Oncorhynchus mykiss</i>		X	
Pikes and Mudminnows	Esocidae			
Grass pickerel	<i>Esox americanus vermiculatus</i>		X	
Central mudminnow	<i>Umbra limi</i>		X	
Chain pickerel	<i>Esox niger</i>		X	
Northern pike	<i>Esox lucius</i>		X	
New World Silversides	Atherinopsidae			
Brook silverside	<i>Labidesthes sicculus</i>		X	
Topminnows	Fundulidae			
Banded killifish	<i>Fundulus diaphanus</i>		X	
Sticklebacks	Gasterosteidae			
Brook stickleback	<i>Culaea inconstans</i>		X	
Threespine stickleback	<i>Gasterosteus aculeatus</i>	HPSGCN	X	
Temperate Bass	Moronidae			
White bass	<i>Morone chrysops</i>		X	

Table B-3. Fish Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name	Scientific Name and Family	Species Status ¹	NYSDEC Statewide Fisheries Database/Fish Atlas Maps of New York	Species Distribution Range in the NYSDEC SWAP
White perch	<i>Morone americana</i>		X	
Sunfishes	<i>Centrarchidae</i>			
Black crappie	<i>Pomoxis nigromaculatus</i>		X	
Bluegill	<i>Lepomis macrochirus</i>		X	
Largemouth bass	<i>Micropterus salmoides</i>		X	
Pumpkinseed	<i>Lepomis gibbosus</i>		X	
Rock bass	<i>Ambloplites rupestris</i>		X	
Smallmouth bass	<i>Micropterus dolomieu</i>		X	
White crappie	<i>Pomoxis annularis</i>		X	
Perches	<i>Percidae</i>			
Fantail darter	<i>Etheostoma flabellare</i>		X	
Iowa darter	<i>Etheostoma exile</i>		X	
Logperch	<i>Percina caprodes</i>		X	
Sauger	<i>Sander canadensis</i>	HPSGCN	X	X
Tessellated darter	<i>Etheostoma olmstedii</i>		X	
Walleye	<i>Sander vitreus</i>		X	
Yellow perch	<i>Perca flavescens</i>		X	
Drums	<i>Sciaenidae</i>			
Freshwater drum	<i>Aplodinotus grunniens</i>		X	
Gobies	<i>Gobiidae</i>			
Round goby	<i>Neogobius melanostomus</i>		X	

¹ FT = Federally Threatened; ST = State Threatened; SE = State Endangered;; SOSC = Species of Special Concern. HPSGCN = High Priority Species of Greatest Conservation Need; SPCN = Species of Potential Conservation Need; SGCN = Species of Greatest Conservation Need.

² No fish species were identified as having the potential to occur within the 5-mile Study by the USFWS IPaC Report (USFWS 2020b).

Sources: NYSDEC 2020c, 2021e,g

Table B-4. Reptile and Amphibian Species Potentially Occurring within the Brookside Solar Project Study Area

Common Name ¹	Scientific Name and Family	Species Status ²	NYSDEC T&E Species Lists (Nature Explorer)	NYS Amphibian & Reptile Atlas	Species Distribution Range in NYSDEC SWAP	NYSDEC Range Maps and Descriptions
Snapping Turtles	Chelydridae					
Common snapping turtle	<i>Chelydra serpentina</i>	SGCN		X	X	
Terrapins, Pond Turtles, Marsh Turtles	Emydidae					
Blanding's turtle	<i>Emydoidea blandingii</i>	ST	X			X
Painted turtle	<i>Chrysemys picta</i>			X		
Wood turtle	<i>Glyptemys insculpta</i>	SOC; HPSGCN	X	X	X	X
Softshell Turtles	Trionychidae					
Spiny softshell	<i>Apalone spinifera</i>	SOC	X			
Colubrids	Colubridae					
Common garter snake	<i>Thamnophis sirtalis</i>			X		
Eastern ribbon snake	<i>Thamnophis sauritus</i>	SGCN		X	X	
Northern brown snake	<i>Storeria dekayi</i>			X		
Northern redbelly snake	<i>Storeria occipitomaculata</i>			X		
Smooth greensnake	<i>Opheodrys vernalis</i>	SGCN			X	
Lungless Salamanders	Plethodontidae					
Alleghany dusky salamander	<i>Desmognathus ochrophaeus</i>			X		
Blue-spotted salamander	<i>Ambystoma laterale</i>	SOC; HPSGCN	X	X	X	X
Common mudpuppy	<i>Necturus maculosus</i>	SGCN		X	X	
Northern dusky salamander	<i>Desmognathus fuscus</i>			X		
Northern red-back salamander	<i>Plethodon cinereus</i>			X		
Northern two-lined salamander	<i>Eurycea bistineata</i>			X		
Red-spotted newt	<i>Notophthalmus viridescens</i>			X		
Spotted salamander	<i>Ambystoma maculatum</i>			X		
Spring salamander	<i>Gyrinophilus porphyriticus</i>			X		
True Toads	Bufonidae					
Eastern American toad	<i>Bufo americanus</i>			X		
Tree Frogs	Hylidae					
Gray treefrog	<i>Hyla vesicolor</i>			X		
Northern spring peeper	<i>Pseudacris crucifer</i>			X		
True Frogs	Ranidae					
Bullfrog	<i>Rana catesbeiana</i>			X		
Green frog	<i>Rana clamitans</i>			X		
Mink frog	<i>Rana septentrionalis</i>			X	X	
Northern leopard frog	<i>Rana pipiens</i>			X		
Wood frog	<i>Rana sylvatica</i>			X		

¹ No federally listed species according to USFWS IPaC.

² FT = Federally Threatened; ST = State Threatened; SE = State Endangered;; SOS = Species of Special Concern. HPSGCN = High Priority Species of Greatest Conservation Need; SPCN = Species of Potential Conservation Need; SGCN = Species of Greatest Conservation Need.

Sources: NYSDEC 2015, 2019, 2020c.

Appendix C. Agency Correspondence and Records

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

June 20, 2019

Jenny Monson-Miller
Geronimo Energy
7650 Edinborough Way, Suite 725
Minneapolis, MN 55435

Re: Brookside Solar Project

County: Franklin Town/City: Burke, Chateaugay

Dear Ms. Monson-Miller:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 5 Office, Division of Environmental Permits at dep.r5@dec.ny.gov, (518) 623-1286.

Sincerely,



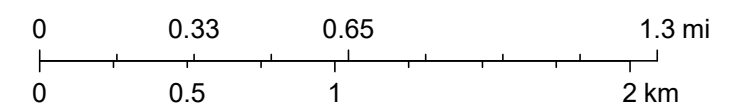
Heidi Krahling
Environmental Review Specialist
New York Natural Heritage Program

Brookside Solar Project



February 25, 2021

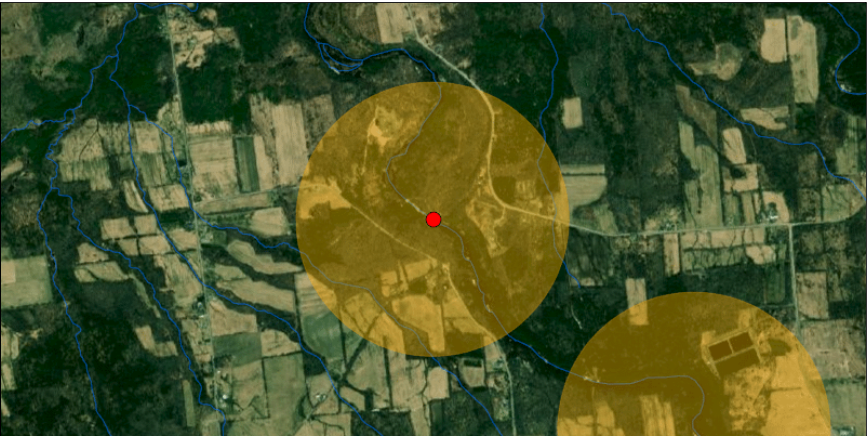
1:36,112



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

NYS Department of Environmental Conservation
Not a legal document

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18	Easting:	569045.8433841249	Northing:	4976742.512135958
Longitude/Latitude	Longitude:	-74.12485694885089	Latitude:	44.940772622942646

The approximate address of the point you clicked on is:
50 Brayton Hollow Rd, Chateaugay, New York, 12920

County: Franklin
Town: Chateaugay
USGS Quad: BURKE, NY-QUE, CHATEAUGAY, NY-QUE

DEC Region

Region 5:
(Eastern Adirondacks/Lake Champlain) Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington counties. For more information visit <http://www.dec.ny.gov/about/631.html>.

[Waterbody Classifications for Rivers/Streams](#)

Regulation: 910-23
Standard: C(T)
Classification: C

[Rare Plants and Rare Animals](#)

This location is in the vicinity of Rare Plants Listed as Endangered, Threatened, or Rare by NYS

National Wetands Inventory

Attribute: undefined
Type: undefined
Acres: undefined

For more information about the National Wetands Inventory wetlands visit <http://www.fws.gov/wetlands/>

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18	Easting:	570733.6783690949	Northing:	4975383.845641565
Longitude/Latitude	Longitude:	-74.10365676879721	Latitude:	44.92837743517417

The approximate address of the point you clicked on is:
Town of Chateaugay, New York

County: Franklin
Town: Chateaugay
USGS Quad: CHATEAUGAY, NY-QUE

DEC Region

Region 5:
(Eastern Adirondacks/Lake Champlain) Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington counties. For more information visit <http://www.dec.ny.gov/about/631.html>.

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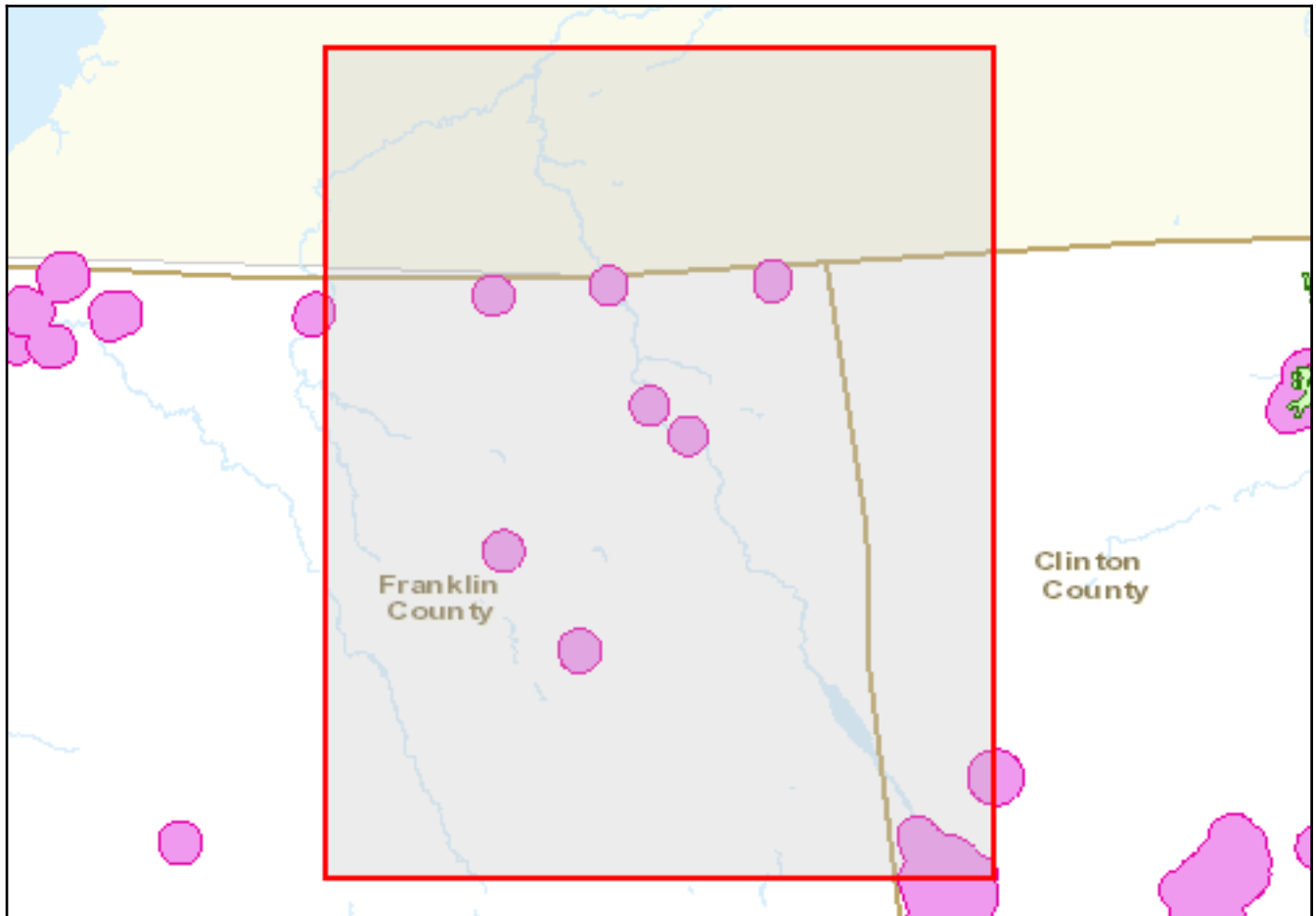
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New York Nature Explorer

User Defined Results Report

Criteria: Selected Map Area



Common Name	Subgroup	Distribution Status	Year Last Documente	Protection Status State	Federal	Conservation Rank State	Global
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Animal: Birds

Common Loon	Loons	Recently Confirmed	2004	Special Concern		S4	G5
<i>Gavia immer</i>							

Animal: Fish

Northern Brook Lamprey	Lampreys	Recently Confirmed	1998			S2	G4
<i>Ichthyomyzon fossor</i>							

Plant: Flowering Plants

Riverweed	Other Flowering Plants	Historically Confirmed	1980	Threatened		S2S3	G5
<i>Podostemum ceratophyllum</i>							

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documente	Protection Status		Conservation Rank	
				State	Federal	State	Global

Note: Restricted plants and animals may also have also been documented in one or more of the Towns or Cities in which your user-defined area is located, but are not listed in these results. This application does not provide information at the level of Town or City on state-listed animals and on other sensitive animals and plants. A list of the restricted animals and plants documented at the corresponding county level can be obtained via the County link(s) on the original User Defined Search Results page. Any individual plant or animal on this county's restricted list may or may not occur in this particular user-defined area.

This list only includes records of rare species and significant natural communities from the databases of the NY Natural Heritage Program. This list is not a definitive statement about the presence or absence of all plants and animals, including rare or state-listed species, or of all significant natural communities. For most areas, comprehensive field surveys have not been conducted, and this list should not be considered a substitute for on-site surveys.

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)		
Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<ul style="list-style-type: none">• If Yes, complete sections C, F and G.• If No, proceed to question C.2 and complete all remaining sections and questions in Part 1	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? <input type="checkbox"/> Yes <input type="checkbox"/> No	
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, identify the plan(s): _____ _____ _____	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, identify the plan(s): _____ _____ _____	

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☐ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☐ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres

b. Total acreage to be physically disturbed? _____ acres

c. Total acreage (project site and any contiguous properties) owned
or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☐ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☐ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes,	
i. Total number of structures _____ ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes,	
i. Purpose of the impoundment: _____ ii. If a water impoundment, the principal source of the water: <input type="checkbox"/> Ground water <input type="checkbox"/> Surface water streams <input type="checkbox"/> Other specify: _____ iii. If other than water, identify the type of impounded/contained liquids and their source. _____ iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? <input type="checkbox"/> Yes <input type="checkbox"/> No (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) If Yes:	
i. What is the purpose of the excavation or dredging? _____ ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____ _____ iv. Will there be onsite dewatering or processing of excavated materials? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe. _____ _____ v. What is the total area to be dredged or excavated? _____ acres vi. What is the maximum area to be worked at any one time? _____ acres vii. What would be the maximum depth of excavation or dredging? _____ feet viii. Will the excavation require blasting? <input type="checkbox"/> Yes <input type="checkbox"/> No ix. Summarize site reclamation goals and plan: _____ _____ _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____ _____	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes ☐ No ☐
 If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No ☐
 If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☐ No ☐
 If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No ☐
 If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No ☐
- Is the project site in the existing district? ☐ Yes ☐ No ☐
- Is expansion of the district needed? ☐ Yes ☐ No ☐
- Do existing lines serve the project site? ☐ Yes ☐ No ☐

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No ☐
 If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No ☐
 If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☐ No ☐
 If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☐ No ☐
 If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No ☐
- Is the project site in the existing district? ☐ Yes ☐ No ☐
- Is expansion of the district needed? ☐ Yes ☐ No ☐

<ul style="list-style-type: none"> • Do existing sewer lines serve the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No • Will a line extension within an existing district be necessary to serve the project? <input type="checkbox"/> Yes <input type="checkbox"/> No <p>If Yes:</p> <ul style="list-style-type: none"> • Describe extensions or capacity expansions proposed to serve this project: _____ 	
<p>iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <ul style="list-style-type: none"> • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____ 	
<p>v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):</p> <p>_____</p> <p>_____</p>	
<p>vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____</p> <p>_____</p> <p>_____</p>	
<p>e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. How much impervious surface will the project create in relation to total size of project parcel?</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (impervious surface)</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (parcel size)</p> <p>ii. Describe types of new point sources. _____</p> <p>_____</p> <p>iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?</p> <p>_____</p> <p>_____</p> <ul style="list-style-type: none"> • If to surface waters, identify receiving water bodies or wetlands: _____ <p>_____</p> <ul style="list-style-type: none"> • Will stormwater runoff flow to adjacent properties? <input type="checkbox"/> Yes <input type="checkbox"/> No 	
<p>iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, identify:</p> <p>i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)</p> <p>_____</p> <p>ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)</p> <p>_____</p> <p>iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)</p> <p>_____</p>	
<p>g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>ii. In addition to emissions as calculated in the application, the project will generate:</p> <ul style="list-style-type: none"> • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 	

<p>h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate methane generation in tons/year (metric): _____</p> <p>ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____</p>			
<p>i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____</p>			
<p>j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. When is the peak traffic expected (Check all that apply): <input type="checkbox"/> Morning <input type="checkbox"/> Evening <input type="checkbox"/> Weekend <input type="checkbox"/> Randomly between hours of _____ to _____.</p> <p>ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____</p> <p>iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____</p> <p>iv. Does the proposed action include any shared use parking? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____</p> <p>vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate annual electricity demand during operation of the proposed action: _____</p> <p>ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____</p> <p>iii. Will the proposed action require a new, or an upgrade, to an existing substation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>l. Hours of operation. Answer all items which apply.</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ </td> <td style="width: 50%; vertical-align: top;"> <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ </td> </tr> </table>		<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 		

<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>n. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p> <p>_____</p> <p>_____</p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally, describe the proposed storage facilities: _____</p> <p>_____</p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s):</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ 	

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☐ No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☐ No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site			
a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. <input type="checkbox"/> Urban <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban) <input type="checkbox"/> Rural (non-farm) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ ii. If mix of uses, generally describe: _____ _____			
b. Land uses and covertypes on the project site.			
Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

<p>c. Is the project site presently used by members of the community for public recreation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>i. If Yes: explain: _____</p>	
<p>d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes,</p> <p>i. Identify Facilities: _____</p> <p>_____</p>	
<p>e. Does the project site contain an existing dam? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Dimensions of the dam and impoundment:</p> <ul style="list-style-type: none"> • Dam height: _____ feet • Dam length: _____ feet • Surface area: _____ acres • Volume impounded: _____ gallons OR acre-feet <p>ii. Dam's existing hazard classification: _____</p> <p>iii. Provide date and summarize results of last inspection: _____</p> <p>_____</p>	
<p>f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Has the facility been formally closed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <ul style="list-style-type: none"> • If yes, cite sources/documentation: _____ <p>ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____</p> <p>_____</p> <p>iii. Describe any development constraints due to the prior solid waste activities: _____</p> <p>_____</p>	
<p>g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____</p> <p>_____</p>	
<p>h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Yes – Spills Incidents database <input type="checkbox"/> Yes – Environmental Site Remediation database <input type="checkbox"/> Neither database </div> <div> Provide DEC ID number(s): _____ Provide DEC ID number(s): _____ </div> </div> <p>ii. If site has been subject of RCRA corrective activities, describe control measures: _____</p> <p>_____</p> <p>iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, provide DEC ID number(s): _____</p> <p>iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____</p> <p>_____</p>	

v. Is the project site subject to an institutional control limiting property uses? <input type="checkbox"/> Yes <input type="checkbox"/> No <ul style="list-style-type: none"> If yes, DEC site ID number: _____ Describe the type of institutional control (e.g., deed restriction or easement): _____ Describe any use limitations: _____ Describe any engineering controls: _____ Will the project affect the institutional or engineering controls in place? <input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____ _____ _____ 																
E.2. Natural Resources On or Near Project Site																
a. What is the average depth to bedrock on the project site? _____ feet																
b. Are there bedrock outcroppings on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %																
c. Predominant soil type(s) present on project site: <table style="width: 100%; border: none;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 10%; text-align: right;">%</td> <td style="border-bottom: 1px solid black; width: 30%;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black; text-align: right;">%</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black; text-align: right;">%</td> <td style="border-bottom: 1px solid black;"></td> </tr> </table>		%			%			%								
	%															
	%															
	%															
d. What is the average depth to the water table on the project site? Average: _____ feet																
e. Drainage status of project site soils: <table style="width: 100%; border: none;"> <tr> <td style="width: 30px;"><input type="checkbox"/> Well Drained:</td> <td style="width: 10%; text-align: right;">_____ % of site</td> </tr> <tr> <td><input type="checkbox"/> Moderately Well Drained:</td> <td style="text-align: right;">_____ % of site</td> </tr> <tr> <td><input type="checkbox"/> Poorly Drained</td> <td style="text-align: right;">_____ % of site</td> </tr> </table>	<input type="checkbox"/> Well Drained:	_____ % of site	<input type="checkbox"/> Moderately Well Drained:	_____ % of site	<input type="checkbox"/> Poorly Drained	_____ % of site										
<input type="checkbox"/> Well Drained:	_____ % of site															
<input type="checkbox"/> Moderately Well Drained:	_____ % of site															
<input type="checkbox"/> Poorly Drained	_____ % of site															
f. Approximate proportion of proposed action site with slopes: <table style="width: 100%; border: none;"> <tr> <td style="width: 30px;"><input type="checkbox"/> 0-10%:</td> <td style="width: 10%; text-align: right;">_____ % of site</td> </tr> <tr> <td><input type="checkbox"/> 10-15%:</td> <td style="text-align: right;">_____ % of site</td> </tr> <tr> <td><input type="checkbox"/> 15% or greater:</td> <td style="text-align: right;">_____ % of site</td> </tr> </table>	<input type="checkbox"/> 0-10%:	_____ % of site	<input type="checkbox"/> 10-15%:	_____ % of site	<input type="checkbox"/> 15% or greater:	_____ % of site										
<input type="checkbox"/> 0-10%:	_____ % of site															
<input type="checkbox"/> 10-15%:	_____ % of site															
<input type="checkbox"/> 15% or greater:	_____ % of site															
g. Are there any unique geologic features on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, describe: _____ _____																
h. Surface water features. <ul style="list-style-type: none"> i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? <input type="checkbox"/> Yes <input type="checkbox"/> No ii. Do any wetlands or other waterbodies adjoin the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i. <ul style="list-style-type: none"> iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <input type="checkbox"/> Yes <input type="checkbox"/> No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: <table style="width: 100%; border: none;"> <tr> <td style="width: 10px;">•</td> <td style="width: 10px;">Streams:</td> <td style="width: 40%;">Name _____</td> <td style="width: 10%;">Classification _____</td> </tr> <tr> <td>•</td> <td>Lakes or Ponds:</td> <td>Name _____</td> <td>Classification _____</td> </tr> <tr> <td>•</td> <td>Wetlands:</td> <td>Name _____</td> <td>Approximate Size _____</td> </tr> <tr> <td>•</td> <td>Wetland No. (if regulated by DEC)</td> <td colspan="2">_____</td> </tr> </table> 	•	Streams:	Name _____	Classification _____	•	Lakes or Ponds:	Name _____	Classification _____	•	Wetlands:	Name _____	Approximate Size _____	•	Wetland No. (if regulated by DEC)	_____	
•	Streams:	Name _____	Classification _____													
•	Lakes or Ponds:	Name _____	Classification _____													
•	Wetlands:	Name _____	Approximate Size _____													
•	Wetland No. (if regulated by DEC)	_____														
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, name of impaired water body/bodies and basis for listing as impaired: _____ _____																
i. Is the project site in a designated Floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No																
j. Is the project site in the 100-year Floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No																
k. Is the project site in the 500-year Floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No																
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <ul style="list-style-type: none"> i. Name of aquifer: _____ 																

<p>m. Identify the predominant wildlife species that occupy or use the project site: _____</p> <p>_____</p> <p>_____</p>	
<p>n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Describe the habitat/community (composition, function, and basis for designation): _____</p> <p style="margin-left: 20px;">ii. Source(s) of description or evaluation: _____</p> <p style="margin-left: 20px;">iii. Extent of community/habitat:</p> <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
<p>o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Species and listing (endangered or threatened): _____</p> <p>_____</p> <p>_____</p>	
<p>p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Species and listing: _____</p> <p>_____</p> <p>_____</p>	
<p>q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, give a brief description of how the proposed action may affect that use: _____</p> <p>_____</p> <p>_____</p>	
<p>E.3. Designated Public Resources On or Near Project Site</p>	
<p>a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, provide county plus district name/number: _____</p>	
<p>b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-left: 20px;">i. If Yes: acreage(s) on project site? _____</p> <p style="margin-left: 20px;">ii. Source(s) of soil rating(s): _____</p>	
<p>c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature</p> <p style="margin-left: 20px;">ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____</p> <p>_____</p> <p>_____</p>	
<p>d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. CEA name: _____</p> <p style="margin-left: 20px;">ii. Basis for designation: _____</p> <p style="margin-left: 20px;">iii. Designating agency and date: _____</p>	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District ii. Name: _____ iii. Brief description of attributes on which listing is based: _____
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? <input type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: i. Describe possible resource(s): _____ ii. Basis for identification: _____
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: i. Identify resource: _____ ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____ iii. Distance between project and resource: _____ miles.
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature _____ Title _____



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	910-24, 910-25
E.2.h.iv [Surface Water Features - Stream Classification]	C(T), D
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.

E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	FRAN001
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:1-1/2story cross-gabled frame residence, Eligible property:Bova House, Eligible property:Atwater Cemetery, Eligible property:St. Patrick's Cemetery
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

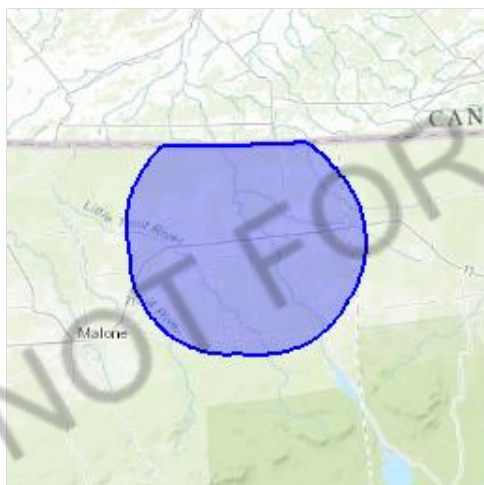
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Clinton and Franklin counties, New York



Local office

New York Ecological Services Field Office

☎ (607) 753-9334

📅 (607) 753-9699

3817 Luker Road

Cortland, NY 13045-9385

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME

STATUS

Northern Long-eared Bat *Myotis septentrionalis*
No critical habitat has been designated for this species.
<https://ecos.fws.gov/ecp/species/9045>

Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Black-billed Cuckoo *Coccyzus erythrophthalmus*

Breeds May 15 to Oct 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9399>

Bobolink *Dolichonyx oryzivorus*

Breeds May 20 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Canada Warbler *Cardellina canadensis*

Breeds May 20 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Cape May Warbler *Setophaga tigrina*

Breeds Jun 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Evening Grosbeak *Coccothraustes vespertinus*

Breeds May 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Lesser Yellowlegs *Tringa flavipes*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9679>

Olive-sided Flycatcher *Contopus cooperi*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

Rusty Blackbird *Euphagus carolinus*

Breeds May 10 to Jul 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Semipalmated Sandpiper *Calidris pusilla*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wood Thrush *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

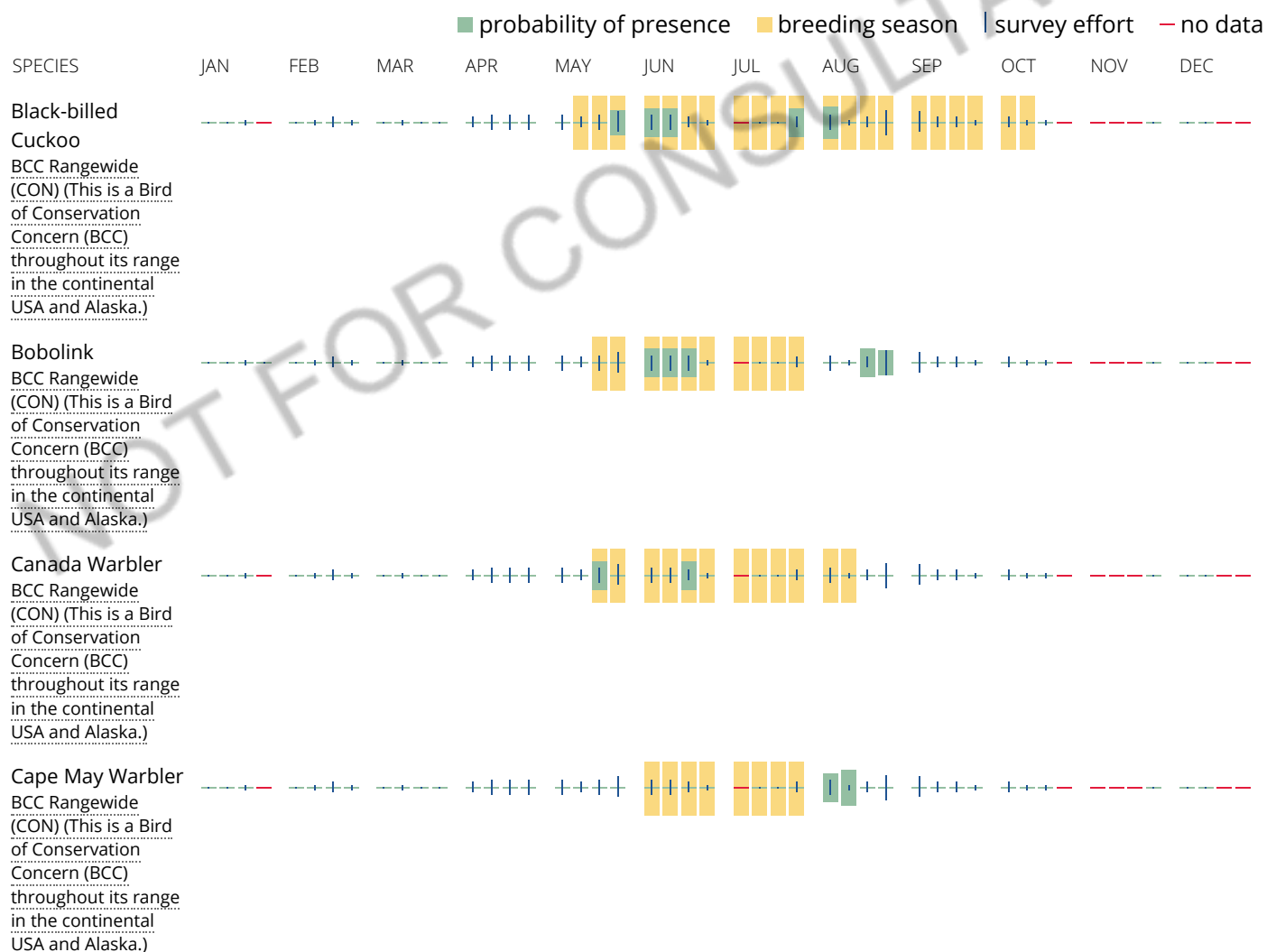
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

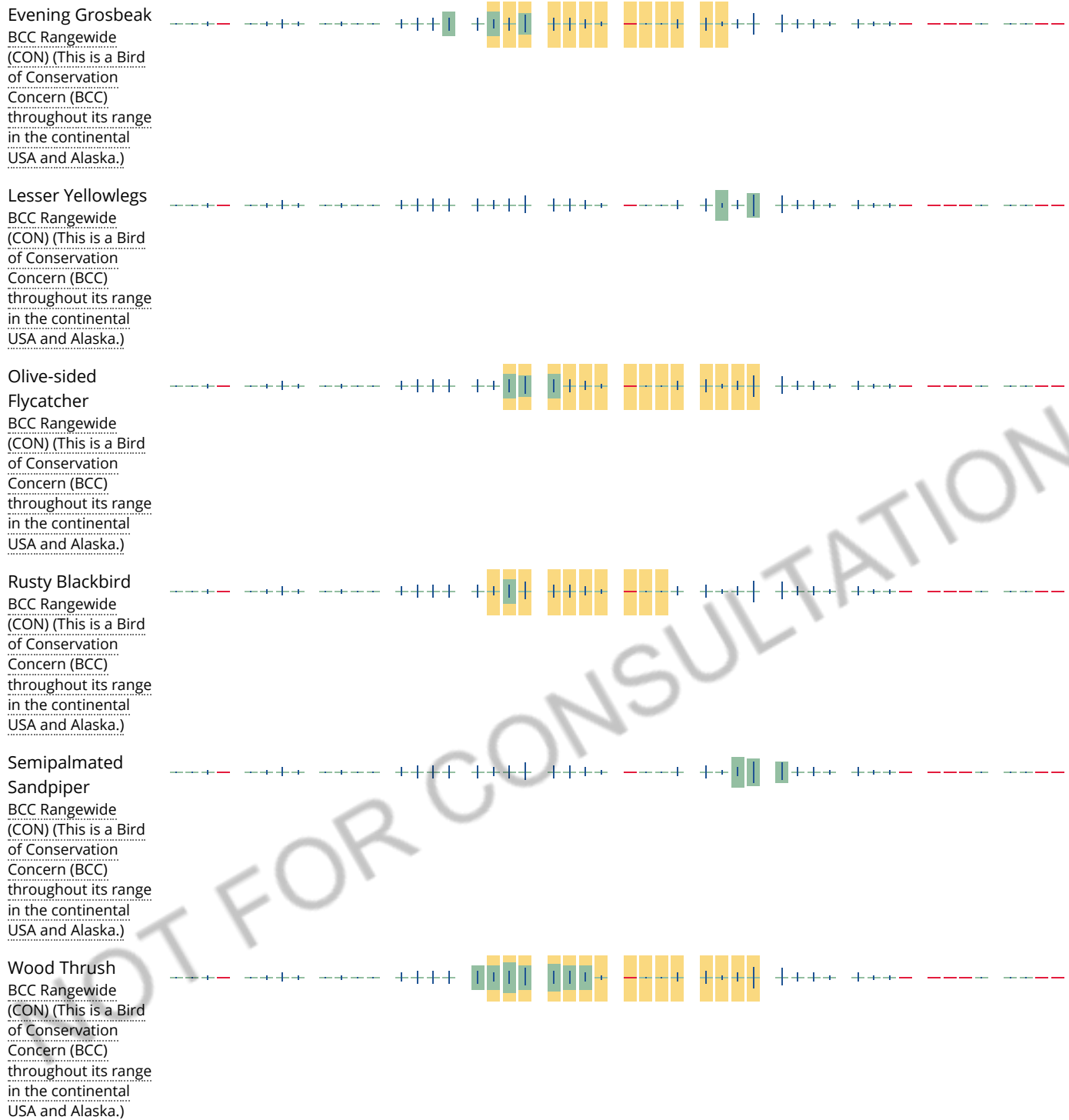
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review.

Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

The area of this project is too large for IPaC to load all NWI wetlands in the area. The list below may be incomplete. Please contact the local U.S. Fish and Wildlife Service office or visit the [NWI map](#) for a full list.

FRESHWATER EMERGENT WETLAND

[PEM5A](#)
[PEM5E](#)
[PEM5C](#)
[PEM5Cd](#)
[PEM5Eb](#)
[PEM5Ad](#)
[PEM5Eh](#)
[PEM5B](#)
[PEM5Fh](#)
[PEM5/UBFb](#)
[PEM5/UBFh](#)
[PEM5Ch](#)
[PEM5/UBFx](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PFO1C](#)
[PSS1C](#)
[PFO1/SS1C](#)
[PFO4B](#)
[PFO1E](#)
[PSS1E](#)
[PFO4/1B](#)
[PSS1A](#)
[PFO1/SS1E](#)
[PFO1A](#)
[PFO1B](#)
[PFO1/4C](#)
[PSS1/EM5C](#)
[PFO1/SS1B](#)
[PFO1/SS1A](#)
[PSS1B](#)
[PSS1/EM5E](#)
[PFO4/SS1B](#)
[PFO4A](#)
[PSS1/EM5A](#)
[PFO1/4A](#)

[PFO4/1A](#)
[PFO1/4B](#)
[PSS1/EM5B](#)
[PFO1/4E](#)
[PSS1/EM5Cd](#)
[PFO4/SS1C](#)
[PFO1/SS1Cd](#)
[PFO4E](#)
[PSS1/EM5Eb](#)
[PFO1/EM5C](#)
[PFO1Eb](#)
[PFO4C](#)
[PFO1/EM5A](#)
[PFO4/SS1E](#)
[PSS1Eb](#)
[PFO4/EM5B](#)
[PFO1/EM5E](#)
[PFO1/SS1Eb](#)
[PSS1Eh](#)
[PSS1Ad](#)
[PSS1/EM5Ad](#)
[PFO5/UBFb](#)
[PSS1Fb](#)
[PFO1Ad](#)

FRESHWATER POND

[PUBFx](#)
[PUBFh](#)
[PUBFb](#)
[PUBF](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

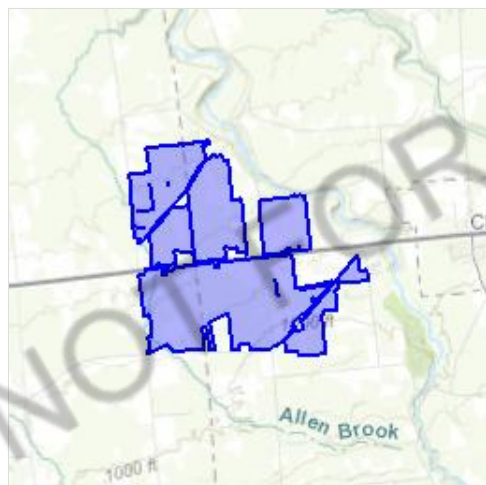
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Franklin County, New York



Local office

New York Ecological Services Field Office

☎ (607) 753-9334

📠 (607) 753-9699

3817 Luker Road

Cortland, NY 13045-9385

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

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Mammals

NAME

STATUS

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9045>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

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Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

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THERE ARE NO MIGRATORY BIRDS OF CONSERVATION CONCERN EXPECTED TO OCCUR AT THIS LOCATION.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

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Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

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What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
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Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review.

Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.