

Veteran Hill Road Solar Project
Town of Veteran, Chemung County, New York

Project Narrative

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Veteran Hill Road Solar Project

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A. THE APPLICANT

Veteran Hill Road Solar LLC (the Applicant), an affiliate of Dynamic Energy LLC, is proposing to develop a 3.8-megawatt (MW) ground-mount, community solar facility in the Town of Veteran, Chemung County, New York.

B. PROJECT SITE

The Applicant proposes to develop the Veteran Hill Road Solar Project (the Project) on approximately 35 acres of the approximately 145-acre parcel at Veteran Hill Road (County Route 47) in the Town of Veteran, Chemung County, New York (the Project Site) (**Figure 1**). The Project Site is listed as Chemung County Tax Parcel 39.00-1-14.1¹ (**Figure 2**). The Project Site currently consists of undeveloped woodland and scattered trails. The Project Site is surrounded by undeveloped woodlands and agricultural land to the north; undeveloped woodlands, agricultural land, and single-family dwellings to the east; undeveloped woodlands and a transmission line corridor to the south; undeveloped woodlands and a tributary to Catharine Creek to the west.

Access to the facility will utilize an existing gravel driveway from Veteran Hill Road (County Route 47) which ties into an existing trail through the woodlands to minimize new disturbance to the maximum extent practicable. The proposed point of interconnection (POI) to the existing NYSEG transmission system will be at Veteran Hill Road.

C. PROJECT DESCRIPTION

The Project includes the construction of a 3.8-MW ground-mounted solar array and related vehicle, utility and security infrastructure.

The Project will consist primarily of installation of tracking solar panels mounted on an elevated post-mounted axle oriented in a north south direction. Panels slowly rotate from east-facing to west-facing to maximize sun exposure and return to east-facing condition overnight. The panels can reach a maximum height of approximately 6-8 feet and can rotate up to 60° to maximize energy capture at sunrise/sunset. The Project will also include 7-foot-tall perimeter fencing, pad mounted electric gear, a gravel access drive, and stormwater management systems (**Figure 1**).

There are no parking facilities or occupied structures proposed as part of the Project as the solar facility will be unmanned. Required excavation will be limited to installation of stormwater management areas, access roads and material staging area, underground electric lines and site preparation for pad mounted electrical equipment. The area under the solar panels will be stabilized and seeded with low growing grass to establish a vegetated ground cover. The Project's existing conditions as well as proposed improvements and specifications are shown in detail on the "Site Plans" provided with the Application.

The Project will connect to an existing overhead power line along Veteran Hill Road. The proposed Point of Interconnection (POI) will be located along the new private access road, requiring the installation of six (6) new approximately 30-foot-tall wooden utility poles.

CONSTRUCTION

Following receipt of all the required permits and approvals, on-Site mobilization will begin. The Project will utilize portions of the Project Site to construct the Project, while using other portions for materials and equipment laydown, and on-Site craft parking.

Construction activities on the Project Site will generally follow the sequence below:

¹ Prior to submission of this application, the landowner obtained a lot line adjustment from the Chemung County Planning Department to merge Parcel 39.00-1-14.1 and portions of 39.00-1-17.1.

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1. **Erosion and Sediment Control Installation:** Erosion and sediment controls will be installed in accordance with approved plans
2. **Clearing and Grading:** The Project will require tree and vegetation clearing for the construction of the Project. Minimal grading is proposed only along the access road and ancillary equipment foundation locations. Spot grading at some racking pile foundation locations may be needed depending on field conditions.
3. **Access Road Installation:** The Project will have a 16-foot access road from Veteran Hill Road (County Route 47) into the fence line of the solar facility.
4. **Ancillary Equipment Installation:** The foundations for the inverters and ancillary electrical equipment will be installed, and equipment will be mounted on the completed pads.
5. **Racking and Panel Construction:** The solar panel posts and ancillary equipment racking systems will be installed, after which the panel installation will commence.
6. **Installation of Utilities:** The Project will include both overhead and underground utilities to connect the solar facility to the electrical grid.

Construction is anticipated to occur between the hours of 7:00 A.M. to 7:00 P.M., Monday through Saturday. It is not anticipated that overnight, weekend or holiday construction hours will be required, but if special circumstances arise, approval from the Town will be requested in advance. The Project is anticipated to be completed in a single phase with construction planned to commence in the third quarter of 2026.

During construction, truck and vehicle traffic is anticipated to access the Project Site utilizing state roadways, specifically Veteran Hill Road (County Route 47), New York State Route 13 and Interstate 86.

OPERATIONS AND MAINTENANCE

The Project Site will normally be unmanned during operation. The Project will be remotely monitored and operated 24 hours per day, 7 days per week, 365 days per year. Unanticipated conditions will be automatically reported to enable service technicians to assess the situation and take appropriate action, including dispatch of maintenance technicians, to return the equipment to a normal operational condition and to maintain safe and reliable operation.

Routine facility and Site maintenance are performed on an annual or semi-annual schedule. Operations and maintenance teams perform preventive maintenance tasks and assess Project conditions to identify necessary repairs. This will include periodic mowing approximately 3-4 times per year. Refer to the Solar Facility Operations and Maintenance Plan provided as Attachment 8 of the Application for additional detail.

D. REVIEW OF ENVIRONMENTAL IMPACT

The solar energy development community's underlying motivation is to create an environmentally sensitive and sustainable source of power to displace less efficient, more polluting, traditional power sources to protect and preserve qualities of the natural environment. The Applicant considers environmental stewardship a core value and strives to integrate projects into the existing landscape through proper site selection and sensitive design. Each potential site has been assessed through detailed preliminary screening for potential impacts on local natural resources such as streams, wetlands, soil classes, and protected species, and only those found to have minimal or no adverse impacts in each category are considered. The Project will minimize impacts to the extent practicable by proper siting, design and construction best management practices (BMPs) while meeting the requirements of the Town's Solar Law.

The Project Site falls within the Town's Residential-Agricultural (RA) Zoning District (**Figure 3**). The Project Site currently consists of undeveloped woodland and scattered trails (**Figure 4**). Tree clearing will be required to construct the Project and has been minimized to the extent practicable through careful evaluation and design of the access road. Prior to any tree clearing, the Applicant will ensure that erosion and sediment control best management practices (BMPs) are installed as presented on the Erosion and Sediment Control Plan (E&SC Plan) to minimize potential impacts during rain events.

National Resource Conservation Service (NRCS) maps indicated that soils within the Project Site are categorized by three different soil map units. The soil map units are summarized in **Table 1**.

Table 1.
Natural Resource Conservation Service – Mapped Soils in the Study Area

Soil Map Unit Symbol	Soil Map Unit Name	Hydric Rating	Percent Cover
LnB	Lima silt loam, 3 to 8 percent slopes	Predominantly nonhydric	34.8%
LnC	Lansing silt loam, 8 to 15 percent slopes	Nonhydric	61.4%
VoC	Volusia channery silt loam, 8 to 15 percent slopes	Predominantly nonhydric	3.8%

The Project is not in a designated NYS Agricultural District and there are no mapped soils as important farmland or statewide significance. Soils within the Project Site are predominately unmapped as MSG Soils, with a small portion of the eastern Project Site mapped as Group 4 (**Figure 5**).

The Project intends to minimize grading to the extent practicable with limited, minimal spot grading to meet racking constraints and as required to prepare the access road and to construct stormwater controls. Further, earthwork may be required following the required clearing and grubbing. The Project will maintain existing runoff patterns and volumes. The Project proposes to minimize impervious ground cover to the extent practicable and proposed impervious ground cover is limited to a proposed electrical equipment pad (gravel/concrete) and an approximately 16 ft-wide gravel access driveway. Further, construction will be performed in accordance with the Project's E&SC Plans and the New York State Department of Environmental Conservation's (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-25-001).

A review of the National Wetland Inventory (NWI) mapping does not depict any mapped wetlands within the Project Site; however, it does depict several mapped wetlands within the vicinity of the Project Site. A mapped riverine (R4SBC, Riverine Intermittent Streambed Seasonally Flooded) is located to the west of the study area. Additionally, a second mapped riverine (PUBHh, Palustrine Unconsolidated Bottom Permanently Flooded Diked/Impounded) is located to the east of the Project Site and further to the south of the Project Site is a NWI mapped freshwater pond (PUBHx, Palustrine Unconsolidated Bottom Permanently Flooded Excavated) and freshwater emergent wetland (PEM1E, Palustrine Emergent Persistent Seasonally Flooded/Saturated). NYSDEC wetland maps also do not identify any wetlands or streams within the Project Site. There are two (2) NYSDEC mapped Priority Streams found within the vicinity of the study area: Catherine Creek and tributaries, is located to the west of the Project Site area and North Branch Newton Creek and tributaries is located to the east of the Project Site.

Wetland delineations conducted by AKRF, Inc. in December 2023, October 2024, and April 2025. In total, AKRF delineated four (4) wetlands within the proposed project development site Project Site. A copy of the Project's Wetland Delineation Memo is provided in **Appendix B**.

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The Applicant has used the information obtained during the wetland delineations to inform design of the Project's layout, access roadway and electric interconnection while meeting applicable wetland permit requirements. The Project will avoid impacts to the delineated wetlands by locating components away from all resource areas. Therefore, the Project is not anticipated to have an adverse impact on wetlands or waters.

During construction, the Project may temporarily displace some general wildlife species; however, once the Project is constructed, a low-growing meadow cover will be established and maintained beneath the solar panels providing habitat for some species. In addition, the Project proposes wildlife fencing, providing a six (6) inch above-ground gap allowing smaller animals to pass through. Substantial wooded areas will remain on all sides of the Project which will provide viable habitat for wildlife across the Project parcel.

A review of the NYSDEC's Environmental Assessment Form (EAF) mapper and ERM does not identify any known rare, threatened or endangered species in the vicinity of the Project Site. Therefore, the Project is not anticipated to have an adverse impact on rare, threatened or endangered species.

A review of the New York State Office of Parks, Recreation and Historic Places (OPRHP) Cultural Resource Information System (CRIS) shows that the Project is not located in or adjacent to an area designated as sensitive for archaeological sites. Further, there are no listed or eligible listed sites in the vicinity of the Project Site. Therefore, the Project is not anticipated to have an adverse impact on archeological or historic resources.

E. COMPLIANCE WITH LOCAL LAWS

The Town of Veteran adopted a zoning ordinance in 2021 and adopted a Solar Energy Local Law (Solar Law) in 2025 updated by Local Law No. 1 of 2026. This section addresses the Project's compliance with the applicable sections of the Solar Law for a Tier 3 Ground-Mounted Solar Energy System. The provisions of the Solar Ordinance are shown in ***bold, italicized*** text while the Project's compliance is shown in regular text².

COMPLIANCE WITH APPLICABILITY (§3(4))

A. The requirements of this Local Law shall apply to all Solar Energy Systems permitted, installed, or modified in the Town of Veteran after the effective date of this Local Law, excluding general maintenance and repair.

The Project will comply with the requirements of the Solar Law.

B. This Local Law shall apply to all applications pending before the Planning Board, so long as a Special Use Permit has not been approved prior to the effective date of this Local Law.

Prior to construction, the Project will obtain a Building Permit from the Town.

COMPLIANCE WITH GENERAL REQUIREMENTS (§3(5))

C. A Building permit shall be required for the installation of all Solar Energy Systems in accordance with the laws herein, and in accordance with the Town of Veteran Zoning Law.

Prior to construction, the Project will obtain a Building Permit from the Town.

² As a result of the Project's capacity and/or system configuration (i.e., ground-mounted), the following sections of the Town Solar Law were deemed not applicable: §6 Permitting Requirements for Tier 1 Solar Energy Systems, §7 Permitting Requirements for Tier 2 Solar Energy Systems, and §9 Permitting Requirements for Tier 4 Solar Energy Systems.

B. Prior to the issuance of the building permit or final approval by the Planning Board, all construction and site plan documents must be signed and stamped by a NYS Licensed Professional Engineer or NYS Registered Architect.

The Project will be designed and engineered by a New York-licensed professional engineer that will certify that the Project meets, or exceeds, the manufacturer's construction and installation standards and applicable code requirements. The site plan drawings are signed and stamped by a NYS Licensed Professional Engineer. Therefore, the Project is in compliance with this requirement.

C. All Tier 2, Tier 3, and Tier 4 Solar Energy Systems shall be designed and operated in consultation with the fire protection agencies serving the Town. Applicants shall coordinate with the appropriate fire departments to ensure adequate site access, emergency response planning, and system safety. Applicants shall provide basic emergency documentation and offer training or orientation to responding agencies prior to system activation. Proof of coordination shall be submitted with the application.

The Applicant will work with the local fire department to provide the necessary training for emergency responders prior to operation of the facility.

D. Issuance of permits and approvals by the Planning Board shall include review pursuant to the State Environmental Quality Review Act (ECL Article 8 and its implementing regulations at 6 NYCRR Part 617 ("SEQRA")).

The Project seeks a Special Use Permit and Site Plan Approval from the Town Board through this Application, and the Applicant understands will trigger review under SEQRA. Therefore, the Project is in compliance with this requirement.

E. All Solar Energy Systems shall be designed, erected, and installed in accordance with all applicable codes, regulations, and industry standards as referenced in the NYS Uniform Fire Prevention and Building Code ("Uniform Code"), the NYS Energy Conservation Code ("Energy Code"), and the Town of Veteran Code.

The Project is designed and will be constructed in accordance with applicable laws, codes, rules and regulations including the Town of Veteran Code.

F. For Solar Energy Systems subject to site plan review and Special Use Permits, the Town of Veteran shall require the applicant to pay the Town for professional services in connection with the Project pursuant to of the Town of Veteran's Local Law 1 of 2010, "A Local Law Pertaining to Professional Services Reimbursement."

The Project seeks a Special Use Permit and Site Plan Approval from the Town Board through this Application, and the Applicant understands fees for professional services may be required. Therefore, the Project is in compliance with this requirement.

COMPLIANCE WITH PERMITTING REQUIREMENTS FOR TIER 3 SOLAR ENERGY SYSTEMS (§8)

A. Applications for the installation of Tier 3 Solar Energy System shall be:

- 1) Reviewed by the Code Enforcement Officer for completeness. Applicants shall be advised within 30 days of the completeness of their application or any deficiencies that must be addressed prior to substantive review.***

- 2) Subject to a public hearing to hear all comments for and against the application. This hearing shall be in compliance with all existing public hearing requirements established under law by the Town of Veteran.**
- 3) Referred to the Chemung County Planning Department pursuant to General Municipal Law § 239-m, if required.**
- 4) Upon closing of the public hearing, the Planning Board shall take action on the application within 60-days of the public hearing, which can include approval, approval with conditions, or denial. The 60-day period may be extended upon consent by both the Town Planning Board and applicant.**

The Project seeks a Special Use Permit and Site Plan Approval from the Town Board through this Application and acknowledges the process outlined in the Solar Law. Therefore, the Project is in compliance with this requirement.

B. Application & Site Plan Review Requirements. Applications for Tier 3 Solar Energy Systems, including materials for site plan review, shall include the following:

- 1) Name, address, and contact information of proposed or potential system installer and the owner and/or operator of the Solar Energy System. Such information of the final system installer shall be submitted prior to the issuance of building permit pursuant to the Town of Veteran Zoning Law.**
- 2) Name, address, contact information, and signature of the project applicant, as well as all the property owners, demonstrating their consent to the application and the use of the property for the Solar Energy System.**
- 3) Nameplate Capacity of the Solar Energy System (as expressed in MW).**
- 4) Zoning district designation for the parcel(s) of land comprising the Facility Area.**
- 5) Property lines and physical features, including roads, for the project site.**
- 6) Map(s) of MSG 1-4 soils and Active Agriculture Lands on the parcel(s) comprising the Facility Area and adjacent parcels.**
- 7) Adjacent land uses on contiguous parcels within a one-mile radius of the site boundary.**
- 8) Proposed changes to the landscape of the site, including site grading, vegetation clearing and planting, the removal of any large trees, access roads, exterior lighting, signage, fencing, landscaping, and screening vegetation or structures.**
- 9) Erosion and sediment control and storm water management plans prepared by the NYS Department of Environmental Conservation standard.**
- 10) A one- or three-line electrical diagram detailing the entire Solar Energy System layout, including the number of Solar Panels in each ground mount array, solar collector installation, associated components, inverters, electrical interconnection methods, and utility meter, with all National Electrical Code compliant disconnects and over current devices. The diagram should describe the location and layout of all Battery Energy Storage System components if applicable and should include applicable setback and other bulk and area standards.**
- 11) A preliminary equipment specification sheet that documents all proposed Solar Panels, system components, mounting systems, racking system details, and inverters that are to be installed. A final equipment specification sheet, including manufacturer, model numbers, and country of origin shall be submitted prior to the issuance of a building permit pursuant to the Town of Veteran Zoning Law.**
- 12) A Property Operation and Maintenance Plan**
- 13) A Decommissioning Plan (see Attachment 1 Town of Veteran Solar Energy System Decommissioning Agreement) signed by the owner and/or operator of the Solar Energy System shall be submitted by the applicant.**
- 14) A Host Community Agreement (Attachment 2 Host Community Agreement) signed by the owner and/or operator of the Solar Energy System shall be submitted by the applicant.**

The Project seeks a Tier 3 Solar Energy System Approval from the Planning Board through this Application, which includes the required information 1 through 14 above. Therefore, the Project is in compliance with this requirement.

C. Special Use Permit Standards: Tier 3. The Planning Board may issue a Special Use Permit for a Tier 3 Solar Energy System pursuant to the satisfaction of requirements established in Article 10, Sections 10.4 – 10.5 of the Town of Veteran Zoning Law, and only after it has found that all the following standards and conditions have been satisfied:

1) Vehicular Paths. Vehicular paths within the Facility Area shall be designed in compliance with Uniform Code requirements to ensure emergency access, while minimizing the extent of impervious materials and soil compaction.

The Project will require 16-foot-wide access from Veteran Hill Road to the fence to allow for safe passage of construction and emergency vehicles as required by the Uniform Code. Therefore, the Project is in compliance with this requirement.

2) Signage.

i. No signage or graphic content shall be displayed on the Solar Energy Systems except the manufacturer's name, equipment specification information, safety information, and 24-hour emergency contact information. Said information shall be depicted within an area no more than 8 square feet.

ii. As required by National Electric Code (NEC), disconnect and other emergency shutoff information shall be clearly displayed on a light reflective surface. A clearly visible warning sign concerning voltage shall be placed at the base of all pad-mounted transformers and substations.

Appropriate warning signs will be placed at the transformers and the Project's main service disconnect as detailed on Sheet C-502 of the of the Site Engineering Plans provided as Attachment 6 of the Application. Therefore, the Project is in compliance with this requirement.

3) Glare. All Solar Panels shall have anti-reflective coating(s).

The Project proposes to use solar panels that are coated with an anti-glare material to minimize potential impacts from glint and glare on adjacent properties and roadways. The Project will not result in glint or glare as demonstrated in the glare analysis portion of the Visual Impact Assessment, provided as Attachment 4 of the Application. Therefore, the Project is in compliance with this requirement.

4) Lighting. Lighting of the Solar Energy Systems shall be limited to that minimally required for safety and operational purposes and shall be reasonably shielded and downcast from abutting properties.

The Project does not propose any lighting. Therefore, the Project is in compliance with this requirement.

5) Lot size. The property on which the Tier 3 Solar Energy System is placed shall meet the lot size requirements of the underlying zoning district.

The Project complies with the lot size requirements as shown on Sheet C-001 of the Site Engineering Plans provided as Attachment 5 of the Application. The parcel the Project is located on is a total of 145 acres. Therefore, the Project is in compliance with this requirement.

6) Setbacks. *The Tier 3 Solar Energy Systems shall comply with the setback requirements of the underlying zoning district for principal structures. Fencing, collection lines, access roads and landscaping may occur within the setback. In addition, all Tier 3 Solar Energy Facilities shall maintain a 250-foot setback from property lines or the boundary of the Conservation Overlay District, whichever is greater.*

The Project complies with the setback requirements as shown on Sheet C-001 of the Site Engineering Plans provided as Attachment 5 of the Application. Therefore, the Project is in compliance with this requirement.

7) Height. *The Tier 3 Solar Energy Systems shall comply with the building height limitations for principal structures of the underlying zoning district. This height requirement can be waived by the Planning Board if the panels are being raised to accommodate continued or new agricultural purposes.*

Although final design of the Project racking system has not yet been completed, the Project will comply with the panel height requirements as shown on Sheet C-001 of the Site Engineering Plans provided as Attachment 6 of the Application. Solar panel height measured from grade will vary with uneven terrain beneath the racking system; however, it is anticipated that in limited locations the maximum solar panel height at full tilt will be approximately 15-16 feet above ground.

8) Lot coverage. *Tier 3 Solar Energy Systems are exempt from the lot coverage requirements in the underlying zoning district.*

The Project's lot coverage is shown on Sheet C-001 of the Site Engineering Plans provided as Attachment 5 of the Application. There are no other buildings or structures on the Project Site. Therefore, the Project is in compliance with this requirement.

9) Fencing Requirements. *All mechanical equipment, including any structure for Battery Energy Storage System components, shall be enclosed by a minimum 7-foot high fence, as required by NEC, with a self-locking gate to prevent unauthorized access.*

The location of the Project's proposed 7-foot fencing is shown on Sheet C-201 and detailed on Sheet C-502 of the Site Engineering Plans provided as Attachment 5 of the Application.

When left unattended, site gates will be secured and locked. A Knox box key box, Knox lock, or other accommodation meeting fire and police access requirements will be provided. The Project will have an 7-ft tall perimeter fence around the facility. Therefore, the Project is in compliance with this requirement.

10) Screening and Visibility

i. The applicant for a Tier 3 Solar Energy System shall be required to:

a) Conduct a visual assessment of the visual impacts of the Solar Energy System on public roadways and adjacent properties. At a minimum, a line-of-sight profile analysis shall be provided. Depending upon the scope and potential significance of the visual impacts, additional impact analyses, including for example a digital viewshed report, shall be required to be submitted by the applicant. Assessments and analysis shall be performed by third party per town of Veteran Local Professional Services Reimbursement Law.

b) Submit a screening & landscaping plan to show adequate measures to screen through landscaping, grading, or other means so that views of Solar Panels and Solar Energy Equipment shall be minimized as reasonably practical from public roadways and adjacent properties to the extent feasible.

c) The screening & landscaping plan shall specify the locations, elevations, height, plant species, and/or materials that will comprise the structures, landscaping, and/or grading used to screen and/or mitigate any adverse aesthetic effects of the system. The landscaped screening shall be comprised of a minimum of [1] evergreen tree, at least [6] feet high at time of planning, plus [2] supplemental shrubs at the reasonable discretion of the Planning Board, all planted within each [10] linear feet of the Solar Energy System. Existing vegetation may be used to satisfy all or a portion of the required landscaped screening. A list of suitable evergreen tree and shrub species should be provided by the Town of Veteran.

The Project is not anticipated to have adverse visual impacts to surrounding areas. The surrounding area is a mix of open field, active farmland, and woodland with significant elevation changes across the area that will limit visibility. Further, the Project has limited frontage along Veteran Hill Road (County Route 47) and will retain a largely intact perimeter of forest. The existing, natural vegetation will also minimize potential impacts from glare. As such, the Project will have limited visual impacts to surrounding areas. A Visual Impact Assessment is provided as Attachment 4 of the demonstrating the low visibility of the Project Site from surrounding viewpoints. Therefore, the Project is in compliance with this requirement.

11) Environmental Resources

i. Removal of existing trees larger than six (6) inches in diameter at breast height (DBH) shall be minimized. The applicant shall submit a Tree Removal Plan that documents all trees to be removed, alternatives considered, and justifications for removals. The Planning Board may require preservation of significant trees where feasible.

ii. Tier 3 Solar Energy System owners shall develop, implement, and maintain native vegetation to the extent practicable pursuant to a vegetation management plan by providing Native Perennial Vegetation and foraging habitat beneficial to game birds, songbirds, and Pollinators. To the extent practicable, when establishing perennial vegetation and beneficial foraging habitat, the owners shall use native plant species and seed mixes and seed all appropriate areas within the Facility Area. Any project which is designed to incorporate agricultural or farm related activities or uses within the Facility Area may be excluded from this requirement based on the amount of space actually occupied by the agricultural use(s). This exclusion will only be allowed based on the Town Planning Board determination that these lands are being used for actual agricultural uses.

iii. Use integrated pest management practices to refrain from/limit pesticide use (including herbicides) for long-term operation and site maintenance.

The Project Site is predominately undeveloped woodland with forested uplands on-site best classified as a mesophytic forest (Edinger, 2014) with red maple (*Acer rubrum*), white pine (*Pinus strobus*), pignut hickory (*Carya glabra*), American hornbeam (*Carpinus caroliniana*), and eastern cottonwood (*Populus deltoides*) dominant to varying degrees throughout the woodlands present. The Applicant has minimized tree clearing to the maximum extent practicable through the use of existing trails as possible, however the Project will require approximately 31 acres of tree clearing and grubbing for the installation of the panels and the access road outside of existing trails. The Applicant does not propose the use of any pesticides or herbicides during construction or maintenance of the Project. Further, the Applicant will work with the Planning Board to develop appropriate survey parameters and perform a tree survey in order to prepare a Tree Removal Plan required by the Solar Law. As such, the Project will be in compliance with this requirement.

12) Agricultural Resources. Tier 3 Solar Energy Systems for which the Facility Area includes Active Agricultural Land shall adhere to the following requirements:

i. Tier 3 Solar Energy System located on Active Agricultural Land shall not exceed 50% of the area of the Active Agricultural Land within the Facility Area.

ii. To the maximum extent practicable, Tier 3 Solar Energy Systems located on active Agricultural Land shall be constructed, monitored, and decommissioned in accordance with the NYS Department of Agriculture and Markets' "Guidelines for Solar Energy Projects - Construction Mitigation for Agricultural Lands."

iii. The Planning Board may waive or modify certain bulk and area standards that result in unintended consequence, if it finds that waiving those standards better protects agriculture and promotes continued agricultural use and alternative designs that protect more land.

The Project is not located on active agricultural land or within a designated Agricultural District. Therefore, the Project is in compliance with this requirement.

D. Ownership Changes. If the owner or operator of the Solar Energy System changes or the owner of the property changes, the Special Use Permit shall remain in effect, provided that the successor owner or operator assumes in writing all of the obligations of the use permit, including the decommissioning plan. A new owner or operator of the Solar Energy System shall notify the zoning enforcement officer of such change in ownership or operator within 30 days of the ownership change.

The Applicant acknowledges this requirement.

COMPLIANCE WITH SAFETY (§10)

A. Solar Energy Systems and Solar Energy Equipment shall be certified under the applicable electrical and building codes as required.

The Project will be designed and engineered by a New York-licensed professional engineer that will certify that the Project meets, or exceeds, the manufacturer's construction and installation standards and applicable code requirements. The Project will be constructed according to all applicable industry standards.

B. Solar Energy Systems shall be maintained in good working order and in accordance with industry standards. Site access shall be maintained, including snow removal at a level acceptable to the local fire department and, if the Tier 2 or 3 Solar Energy System is located in an ambulance district, the local ambulance corps.

The Project will be inspected in accordance with the Solar Facility Operation and Maintenance Plan provided as Attachment 8 of the Application. Therefore, the Project is in compliance with this requirement.

C. If a Battery Energy Storage System is included as part of the Solar Energy System, they shall conform to the Town of Veteran's Battery Energy Storage System Local Law.

The Project does not include solar storage batteries. Therefore, the Project is in compliance with this requirement.

COMPLIANCE WITH PERMIT TIMEFRAME AND ABANDONMENT (§11)

A. The Special Use Permit and site plan approval for a Solar Energy System shall be valid for a period of 36 months, provided that a building permit is issued, and construction is commenced. In the event construction is not completed in accordance with the final site plan – as may have been amended and approved – as required by the Planning Board within 36 months, the applicant may request to extend the time to complete construction for 12 months. Approval of a request to extend the time to complete construction shall not be unreasonably withheld by the Town. If the owner and/or operator fails to perform substantial construction within 48 months, the approvals shall expire.

The Applicant understands the timeframes for the validity of the Special Use Permit and Site Plan approval.

B. Upon cessation of electricity generation of a Solar Energy System on a continuous basis for 6 (six) months ("No Generation Status"), the Town may notify and instruct the owner and/or operator of the Solar Energy System to implement the decommissioning plan. The owner must commence decommissioning within ninety (90) days and complete all removal and restoration within nine (9) months of notification. The owner/operator shall notify the Town Code Enforcement Officer within 30 days of a No Generation Status.

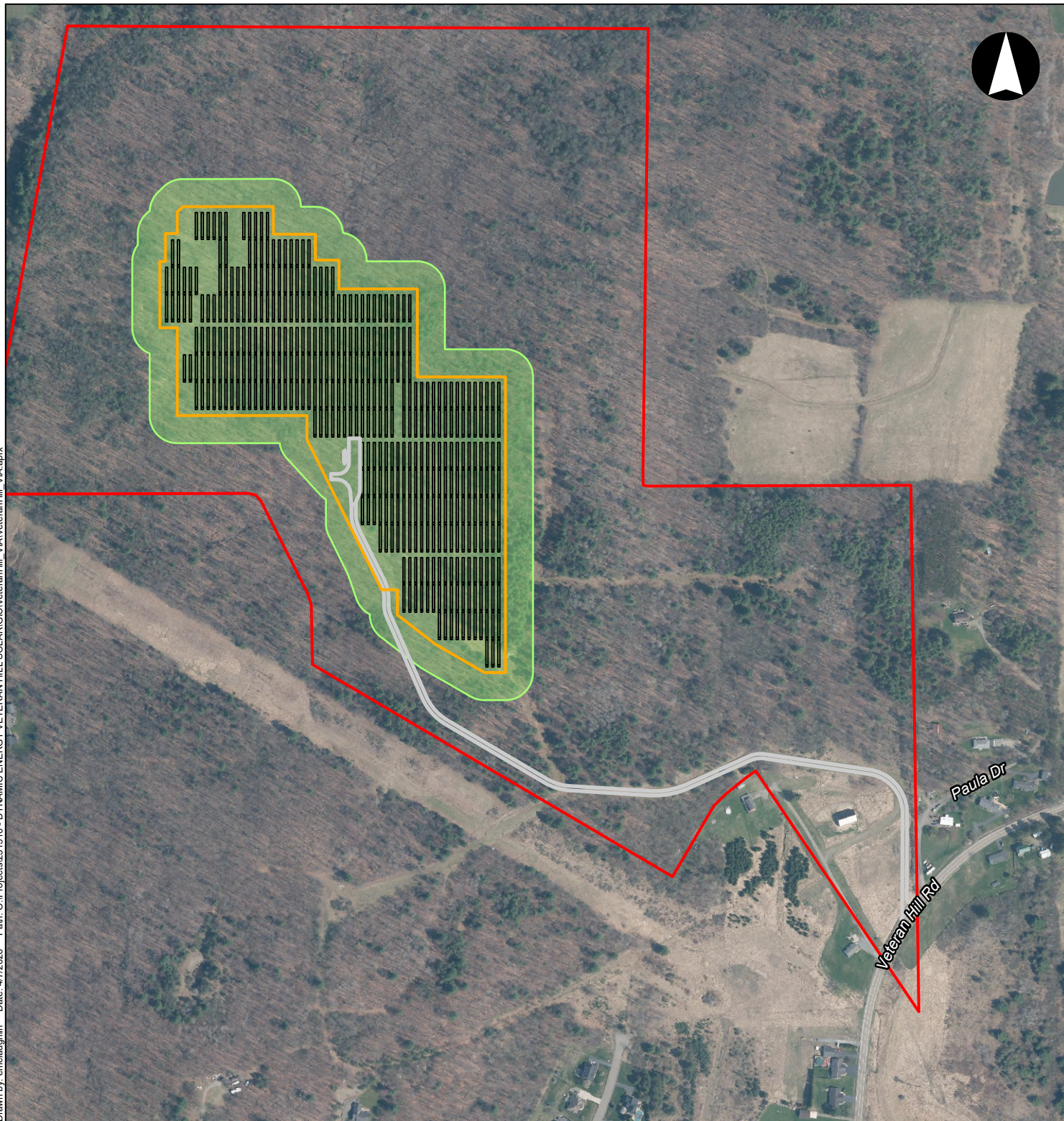
The Project's Preliminary Solar Facility Decommissioning Plan, including the decommissioning cost estimate, is provided as Attachment 9 of the Application and includes provisions commensurate with the Solar Law's Decommissioning Agreement. Therefore, the Project is in compliance with this requirement.

C. If the owner and/or operator fails to comply with decommissioning upon any abandonment, the Town may, at its discretion, utilize the bond and/or security for the removal of the Solar Energy System and restoration of the site in accordance with the decommissioning plan. Refer to Town of Veteran Solar Energy System Decommissioning Agreement Attachment #1.

The Project's Preliminary Solar Facility Decommissioning Plan, including the decommissioning cost estimate, is provided as Attachment 9 of the Application and includes provisions for the Town's utilization of the bond and/or financial security for removal and restoration per the Solar Law's Decommissioning Agreement. Therefore, the Project is in compliance with this requirement.

Figures

Drawn by: emclaughlin Date: 4/7/2026 Path: O:\Projects\23 1510 - DYNAMIC ENERGY VETERAN HILL SOLAR\GIS\Veteran Hill_VIA\Veteran Hill_VIA.aprx



akrf

Data source: Aerial imagery is for 2022,
sourced from the NYS GIS Clearinghouse

Legend

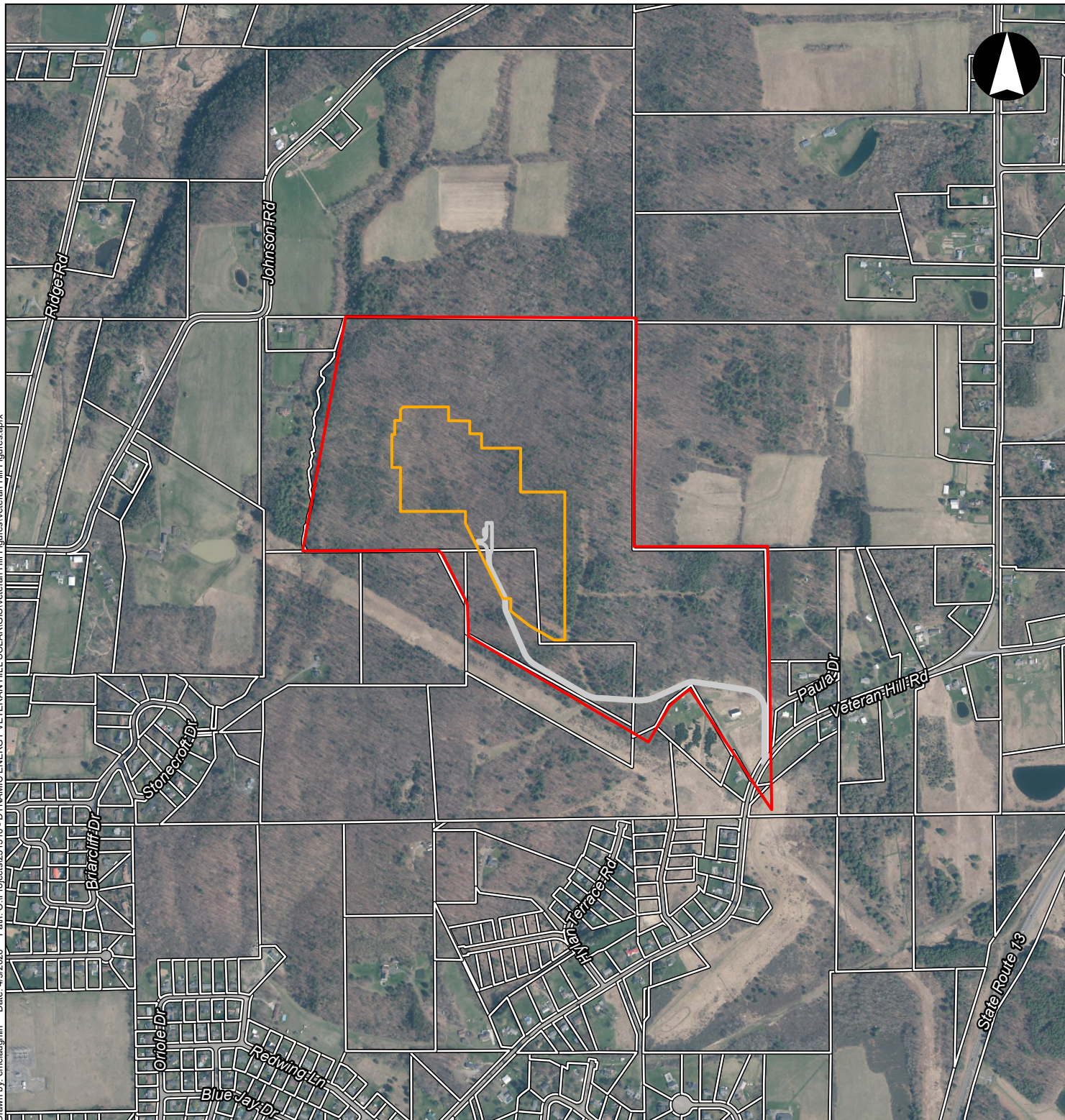
-  Parcel Boundary
-  Proposed Solar Arrays
-  Proposed Project Fence
-  Proposed Access Road
-  Assumed Tree Clearing Area

Veteran Hill Road Solar, LLC
Veteran Hill Road Solar Project
Town of Veteran
Chemung County, NY

0 250 500
Feet
1 inch equals 500 feet

Figure 1
Project Overview
April 2026

Drawn by: emclaughlin Date: 4/9/2026 Path: O:\Projects\23 1510 - DYNAMIC ENERGY VETERAN HILL SOLAR\GIS\Veteran Hill Figures\Veteran Hill Figures.aprx



akrf

Data source: Parcels data for Chemung County last updated on November 20, 2024

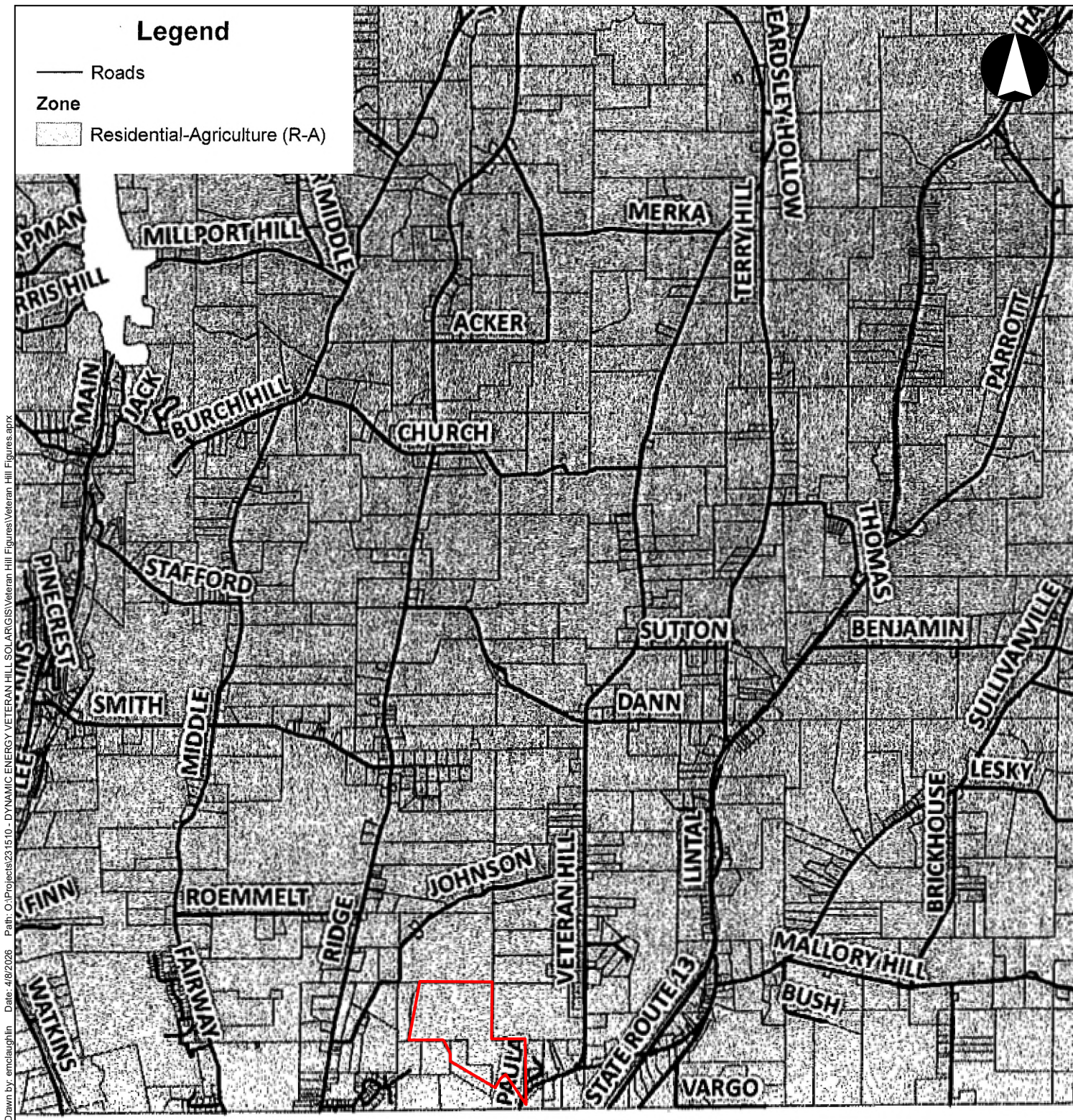
Legend

-  Parcel Boundary
-  Proposed Project Fence
-  Proposed Access Road
-  Parcel

**Veteran Hill Road Solar, LLC
Veteran Hill Road Solar Project
Town of Veteran
Chemung County, NY**

0 500 1,000
Feet
1 inch equals 1,000 feet

Figure 2
Chemung County Tax Map
April 2026



Drawn by: emclaughlin Date: 4/8/2026 Path: O:\Projects\23 1510 - DYNAMIC ENERGY VETERAN HILL SOLAR\GIS\Veteran Hill Figures\Veteran Hill Figures.aprx

akrf

Data source: Zoning map sourced from the Town of Veteran Zoning Law (2021)

Legend

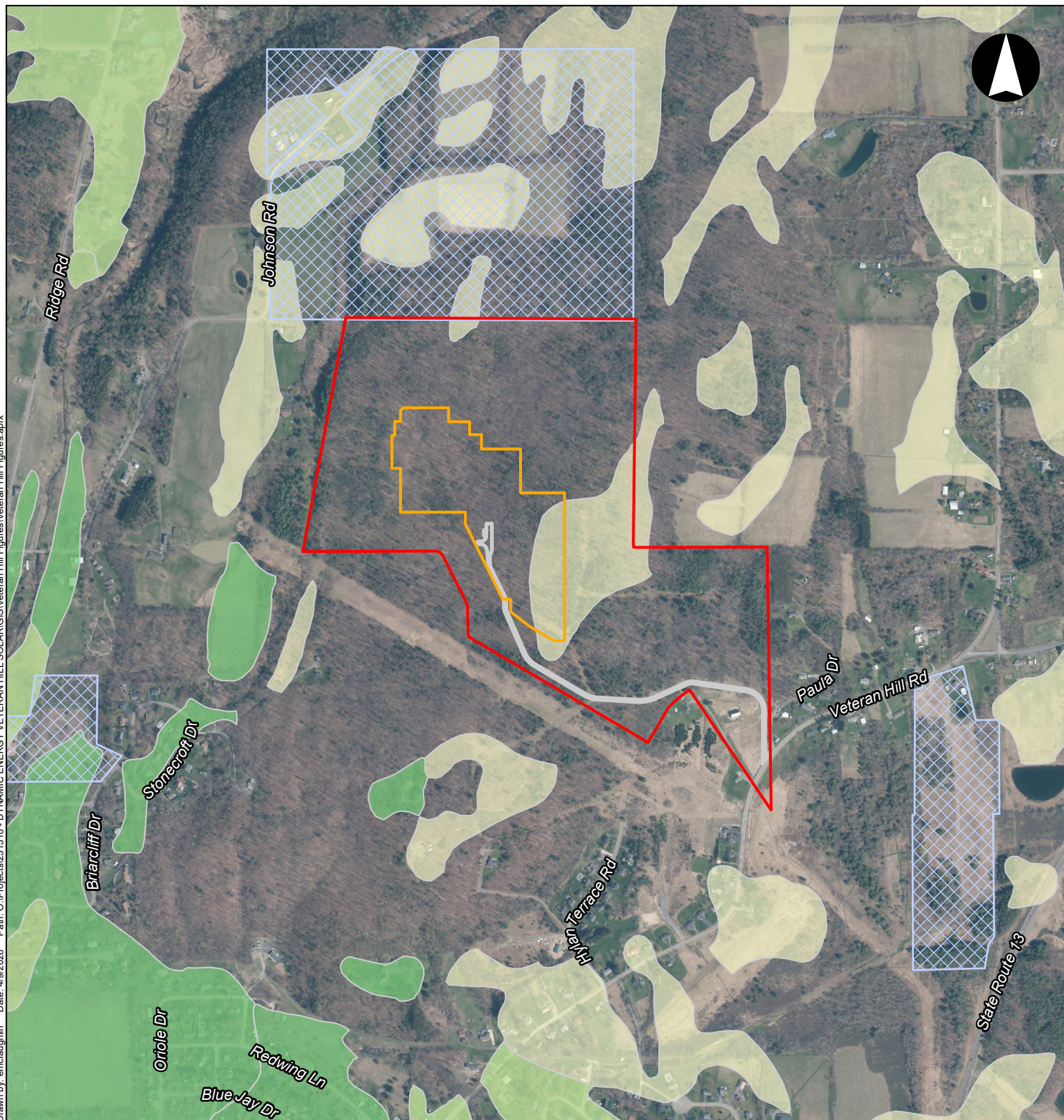
Parcel Boundary

Veteran Hill Road Solar, LLC
Veteran Hill Road Solar Project
Town of Veteran
Chemung County, NY,

0 2,000 4,000 Feet
1 inch equals 4,000 feet

Figure 3
Zoning Map
April 2026

Drawn by: emclaughlin Date: 4/9/2026 Path: O:\Projects\23 1510 - DYNAMIC ENERGY VETERAN HILL SOLAR\GIS\Veteran Hill Figures\Veteran Hill Figures.aprx



akrf

Data source: MSG soils data provided by
NYSERDA. NY Agricultural Districts provided
by the NYS GIS Clearinghouse.

Legend

-  Parcel Boundary
-  Proposed Project Fence
-  Proposed Access Road
-  NYS Agricultural Districts

NYSDERDA MSG Soils

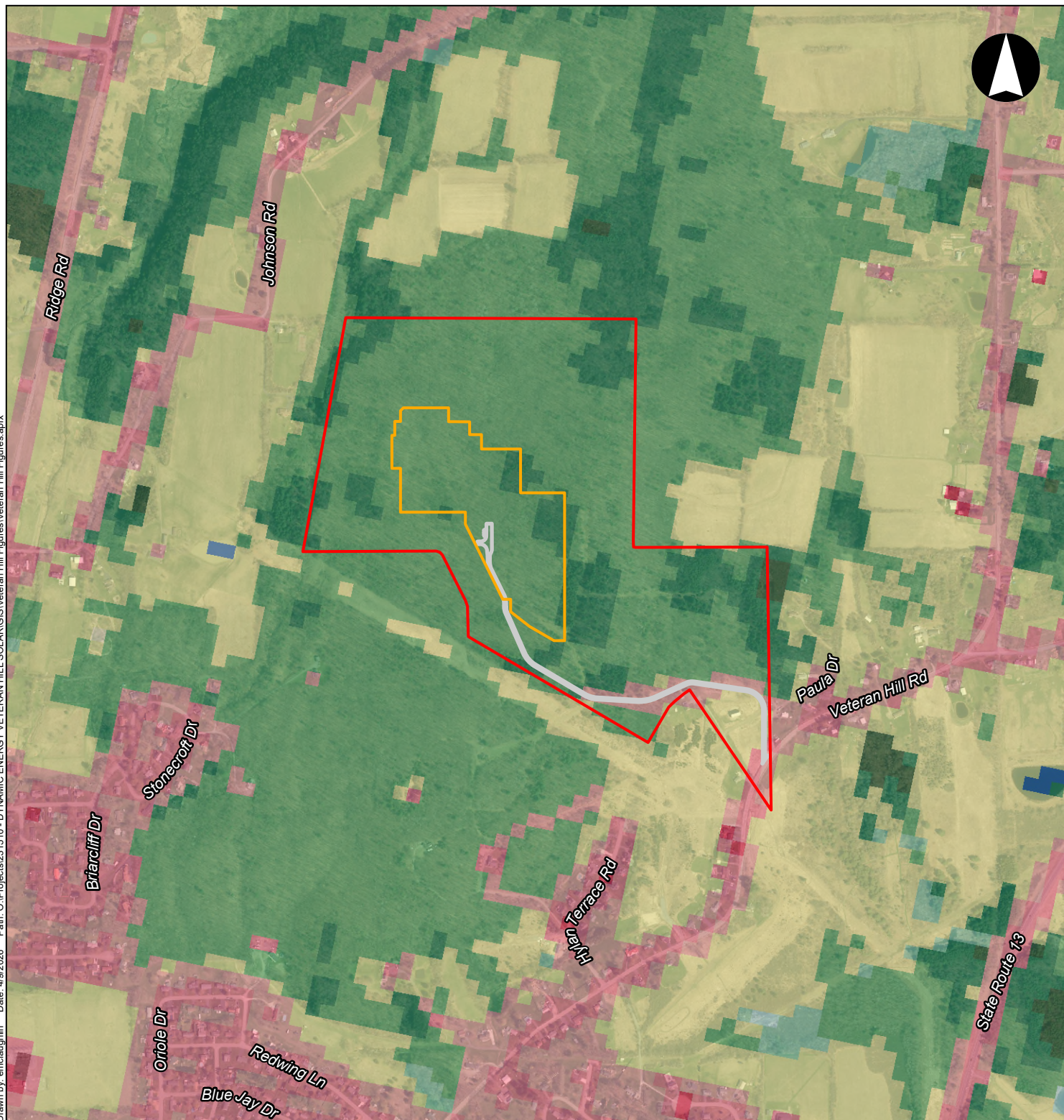
-  Group 1
-  Group 2
-  Group 3
-  Group 4

Veteran Hill Road Solar, LLC
Veteran Hill Road Solar Project
Town of Veteran
Chemung County, NY

0 500 1,000
Feet
1 inch equals 1,000 feet

Figure 4
Soils Map
April 2026

Drawn by: emclaughlin Date: 4/9/2026 Path: O:\Projects\23 1510 - DYNAMIC ENERGY VETERAN HILL SOLAR\GIS\Veteran Hill Figures\Veteran Hill Figures.aprx



akrf

Data source: NLCD Land Cover provided by esri, last updated February 23, 2026.

Legend

- Parcel Boundary
- Proposed Project Fence
- Proposed Access Road

USA Annual NLCD - Land Cover

- Open Water
- Developed Open Space
- Developed Low Intensity
- Developed Medium Intensity
- Developed High Intensity

- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

Veteran Hill Road Solar, LLC
Veteran Hill Road Solar Project
Town of Veteran
Chemung County, NY

0 500 1,000
Feet
1 inch equals 1,000 feet

Figure 5
NLCD Annual Land Cover
April 2026

Appendix A.
Wetland Delineation Memo

Memorandum

To: Matt McDevitt, Dynamic Energy LLC
From: Elizabeth Weatherby (Vice President); Jerry Peake (Wetland Scientist)
Date: May 7, 2025
Re: Veteran Hill Solar Project Wetland Delineation Memo
cc: Jason Funk, Dynamic Energy LLC

INTRODUCTION

Dynamic Energy LLC (Dynamic Energy) is proposing the development of a solar farm on a site located in the Town of Veteran in Chemung County, New York (proposed project). The study area is approximately 100 acres across four (4) parcels (see **Figure 1** and **Figure 2**). It is currently planned that the solar array will be located over undeveloped woodlands on Town of Veteran Tax Parcel 39.00-01-14.1 (project site). The parcel in its entirety is 126.1 acres, of which approximately 85 acres has been delineated as part of the solar project siting investigation. The western and southern-most areas of the parcel having not been delineated. It is currently planned that the proposed site access and interconnection route will follow the eastern parcel boundary from Veteran Hill Road, bearing north, to the westerly turn at the existing access road. The proposed access will follow the existing access road to the west, turning to the north into the central portion of the parcel. The study area consists primarily of undeveloped woodlands intersected with dirt and gravel access roads throughout. It should be noted that AKRF previously performed two wetland delineations at this parcel on December 19, 2023 and October 9 and 10, 2024. The April 2025 wetland delineation focused on the study area located in the central portion of the parcel and along the proposed site access/project interconnection route, consisting of approximately 40 acres.

During the December 2023 delineation, AKRF delineated three (3) streams (S1, S2, and S3). Streams S1 and S3 were determined to be ephemeral and stream S2 was determined to be perennial.

During the October 9 and 10, 2024 delineation, AKRF delineated four (4) wetlands within the additional, approximately 32-acre, project development site study area, which is located to the north of the 2023 study area. In addition, AKRF slightly expanded the previously delineated stream S2 to the north, to cover the area of the previously planned site access/project interconnection route.

The April 7, 2025 and April 21, 2025 site investigations, AKRF investigated approximately 40 acres of additional land located in the central portion of the parcel and the updated proposed site access/project interconnection route. The study area is located to the northwest of the initial 2023 study area and to the south of the 2024 study area. The April 2025 investigation did not result in any additional wetland communities or streams delineated in the central portion of the parcel or along the proposed site access/project interconnection route.

METHODOLOGY

Prior to the wetland delineation, AKRF reviewed maps from the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (see **Figure 3**) and the New York State Department of Environmental Conservation (NYSDEC) (see **Figure 4**) for NWI-mapped and NYSDEC-mapped wetlands and priority waterbodies, respectively, within the study area. AKRF also reviewed the Natural Resources Conservation Service (NRCS) soils maps (see **Figure 5**) for soil types within the study area, with respect to soil series identified as hydric.

AKRF wetland scientist conducted the wetland delineation within the study area of the proposed project on April 7, 2025 and April 21, 2025, using the U.S. Army Corps of Engineers (USACE) three parameter wetland delineation methodology¹ as described below for the three wetland indicators of hydrology, hydric soils and hydrophytic vegetation. The USACE *Wetland Determination Data Form – Northcentral and Northeast Region* (2012) was used to document the absence of wetlands in the study area and photographs of representative upland communities are shown in **Attachment B**.

HYDROLOGY AND SOILS

AKRF characterized the absence of hydrology within the study area using aerial photographs, site observations, and soil samples. An auger was used to collect the samples to determine soil saturation and/or a high-water table. The soil samples were characterized using the Munsell Soil Color Chart. During the site investigation, hydrology and soils observations were made during a period of moderately wet weather owing to transition of winter to spring and soil moisture due to snow melt in the area.

VEGETATION

AKRF used the USACE *Northcentral and Northeast 2022 Regional Wetland Plant List* to determine the wetland/upland status² of the plant species identified within the study area. Percent cover was documented in the tree, woody vine, sapling/shrub, and herb strata. A 30-foot radius plot was established to document plant species percent cover in the tree and woody vine strata. Within this 30-foot plot, a 15-foot radius plot was established for the measurement of percent cover of shrubs and saplings. For species in the herb stratum, a 5-foot radius plot was established within the 30-foot radius plot.

WETLANDS, SURFACE WATERS MAPS, AND SOILS

NATIONAL WETLANDS INVENTORY-MAPPED WETLANDS

The NWI mapping does not depict any mapped wetlands within the study area; however, it does depict several mapped wetlands within the vicinity of the study area. A mapped riverine (R4SBC, Riverine Intermittent Streambed Seasonally Flooded) is located to the west of the study area (see **Figure 3**). Additionally a second mapped riverine (PUBHh, Palustrine Unconsolidated Bottom Permanently Flooded Diked/Impounded) is located to the east of the study area and further to the south of the study area is a NWI mapped freshwater pond (PUBHx, Palustrine Unconsolidated

¹ Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

² Wetland/upland statuses for plant species include Obligate (OBL; occurring in wetlands greater than or equal to 99 percent of the time), Facultative Wetland (FACW; occurring in wetlands between 67 and 99 percent of the time), Facultative (FAC; occurring in wetlands between 34 and 66 percent of the time), Facultative Upland (FACU; occurring in wetlands between 1 and 33 percent of the time), and Upland (UPL; occurring in wetlands less than or equal to 1 percent of the time). Dominant species indicative of wetlands include species rated as OBL, FACW, and FAC.

Bottom Permanently Flooded Excavated) and freshwater emergent wetland (PEM1E, Palustrine Emergent Persistent Seasonally Flooded/Saturated).

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED WETLANDS

NYSDEC wetland maps did not identify any wetlands or streams within the study area (see **Figure 4**). However, two (2) NYSDEC mapped Priority Streams are found within the vicinity of the study area: Catherine Creek and tributaries, is located to the west of the study area and North Branch Newton Creek and tributaries is located to the east of the study area.

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED PRIORITY WATERBODIES

The NYSDEC Priority Waterbodies mapping did not identify any mapped resources within the study area. However, as mentioned above, two NYSDEC Class C Priority Waterbody³, Catherine Creek and tributaries (water index number Ont 66-12-P369- 59 (upper))⁴ to the west of the study area, and North Branch Newton Creek (water index number: Pa 3-28-13)⁵ to the east of the study area (see **Figure 4**). The study area is on the border of the Chemung River and Oswego River/Finger Lakes Watersheds.

NATURAL RESOURCES CONSERVATION SERVICE -MAPPED SOILS

NRCS-mapped soils within the study area (see **Figure 5**) are categorized into 3 different soil map units. The soil map units and their hydric rating (i.e., whether NRCS identifies the soil map unit as hydric) are summarized in **Table 1** below.

Table 1.

Natural Resource Conservation Service – Mapped Soils in the Study Area

Soil Map Unit Symbol	Soil Map Unit Name	Hydric Rating	Percent Cover
LnB	Lima silt loam, 3 to 8 percent slopes	Predominantly nonhydric	34.8%
LnC	Lansing silt loam, 8 to 15 percent slopes	Nonhydric	61.4%
VoC	Volusia channery silt loam, 8 to 15 percent slopes	Predominantly nonhydric	3.8%

WETLAND DELINEATION

AKRF wetland scientist performed a site investigation on April 7, 2025 and April 21, 2025. The site investigation did not find additional wetlands within the study area (see **Figure 6**). The study area is predominately undeveloped woodland. Forested uplands on-site are best classified as a mesophytic forest (Edinger, 2014) with red maple (*Acer rubrum*), white pine (*Pinus strobus*), pignut hickory (*Carya glabra*), American hornbeam (*Carpinus caroliniana*), and eastern cottonwood (*Populus deltoides*) dominant to varying degrees throughout the woodlands present on the study area. Weather conditions during the site review on April 7 were 29°F at 7:30 am to 42°F at 1:00 pm with a light snow cover on the ground surface in the morning which melted off by 12:00 pm. Weather conditions during the site review on April 21, 2025 were 63°F and cloudy at

³ Per 6 CRR-NY 701.8, "The best usage of Class C waters is fishing. These waters shall be suitable for fish, shellfish and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes."

⁴ [WI/PWL Fact Sheets - Seneca Lake Inlet Watershed \(0414020106\)](#)

⁵ [WI/PWL Fact Sheets - Middle Chemung River Watershed \(0205010505\)](#)

12:00 pm to 65°F and cloudy at 2:30 pm. The sky was overcast for the majority of the site investigation with only brief periods of sunshine throughout the duration of the investigation. Soils were not frozen and vegetation had recently started to bud out. See **Figure 6** and **Attachment A** for an overview of the survey area and photographic documentation of the conditions at the time of the investigation.

UPLAND PLOT 1

Upland plot 1 is an un-paired data plot which characterizes the general upland conditions located in the southern portion of the investigation area, serving to characterize the upland areas within this general vicinity of the site (see **Figure 6** and **Attachment A**). The dominant vegetation observed in this upland included white pine (*Pinus strobus*, FACU) and red oak (*Quercus rubra*, FACU) in the tree stratum and white pine in the sapling/shrub stratum. The observed vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology or hydric soils indicators. Therefore, this area does not meet the threshold for a wetland (see **Attachment B** – USACE Data Form “Upland Plot 1”).

UPLAND PLOT 2

Upland Plot 2 is an unpaired data plot which characterizes the general upland conditions located within the northwestern portion of the investigation area, serving to characterize the upland areas within this general area of the site (see **Figure 6** and **Attachment A**). The dominant vegetation observed in this upland included red oak (*Quercus rubra*, FACU), white pine (*Pinus strobus*, FACU) in the tree stratum; red oak, white pine, and hophornbeam (*Ostrya virginiana*, FACU) in the sapling/shrub stratum. The vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology or hydric soils indicators. Therefore, this area does not meet the threshold for a wetland (see **Attachment B** – USACE Data Form “Upland Plot 2”).

UPLAND PLOT 3

Upland plot 3 is an un-paired data plot which characterizes the general upland conditions located within the northeastern portion of the investigation area, serving to characterize the upland areas within this general vicinity of the site (see **Figure 6** and **Attachment A**). The dominant vegetation observed in this upland included red oak (*Quercus rubra*, FACU), black cherry (*Prunus serotina*, FACU), white ash (*Fraxinus americana*, FACU), white pine (*Pinus strobus*, FACU), and American beech (*Fagus grandifolia*, FACU) in the tree stratum; American beech, white pine, and Morrow's honeysuckle (*Lonicera morrowii*, FACU) in the sapling/shrub stratum and partridgeberry (*Mitchella repens*, FACU) in the herbaceous stratum. The observed vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology or hydric soils indicators. Therefore, this area does not meet the threshold for a wetland (see **Attachment B** – USACE Data Form “Upland Plot 3”).

UPLAND PLOT 4

Upland plot 4 is an un-paired data plot which characterizes the general upland conditions located in the southern portion of the investigation area, serving to characterize the upland conditions along the proposed site access/project interconnection route (see **Figure 6** and **Attachment A**). The dominant vegetation observed in this upland included white pine (*Pinus strobus*, FACU) and white oak (*Quercus alba*, FACU) in the tree stratum and white pine, white oak, and red maple (*Acer rubrum*, FAC) in the sapling/shrub stratum. The dominant vegetation observed in the herbaceous stratum included poverty oatgrass (*Danthonia spicata*, UPL) and dandelion (*Taraxacum officinale*, FACU). The observed vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology or hydric soils indicators.

Therefore, this area does not meet the threshold for a wetland (see **Attachment B** – USACE Data Form “Upland Plot 4”).

SURFACE WATERS

The site investigations performed on April 7, 2025 and April 21, 2025 did not locate additional surface waters within the investigation area.

PRELIMINARY JURISDICTIONAL SUMMARY AND CONCLUSION

No additional freshwater wetlands or streams were delineated within the study area during the April 7, 2025 and April 21, 2025 site investigations. A total of four (4) upland data plots were collected during the site investigations to document the typical vegetative community, soil characteristics, and hydrology within the investigation areas.

Figures:

- Figure 1 – USGS (NYSDOT) Topographic Map
- Figure 2 – Aerial Overview Map
- Figure 3 – NWI Wetlands Map
- Figure 4 – NYSDEC Wetlands and Priority Waterbodies
- Figure 5 – NRCS Soil Survey Map
- Figure 6 – Study Area Investigation Overview

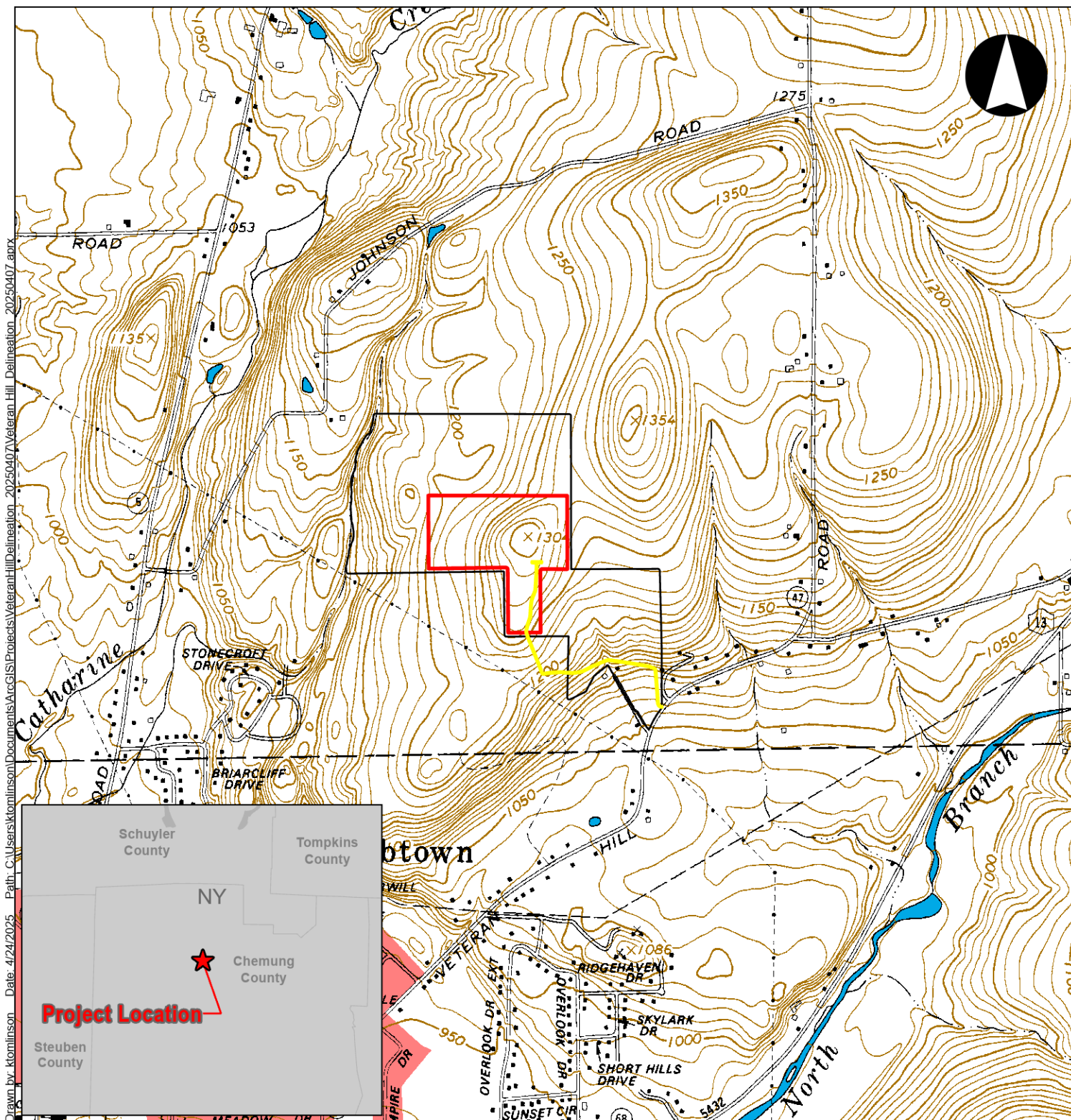
Attachments:

- Attachment A – Study Area Photographic Log
- Attachment B – USACE Wetland Determination Data Forms (ENG 6116-8)

REFERENCES

- Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY
- Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Figures



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Data source: data.gis.ny.gov 24K Quad Map for Horseheads (W24) last updated March 2023.

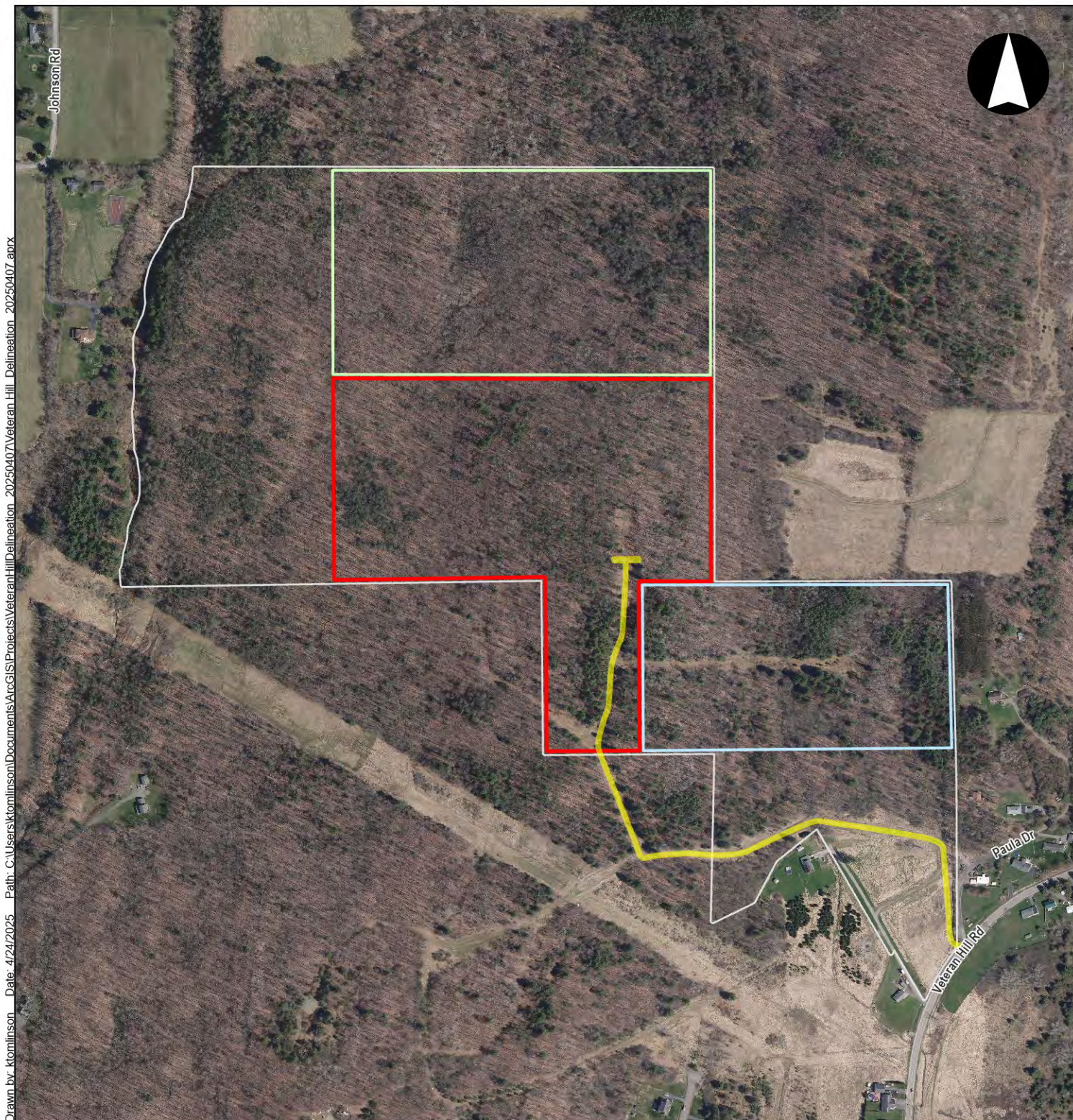
Legend

- Study Area (04/07/2025)
- Parcel Boundary
- Proposed Access Road

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 1,000 2,000
Feet
1 inch equals 2,000 feet

Figure 1
NYSDOT Topographic Site Location
April 2025



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Data source: Aerial imagery sourced from
2021 NYS Orthoimagery Program Office at
<https://ortho.dhss.ny.gov/>.

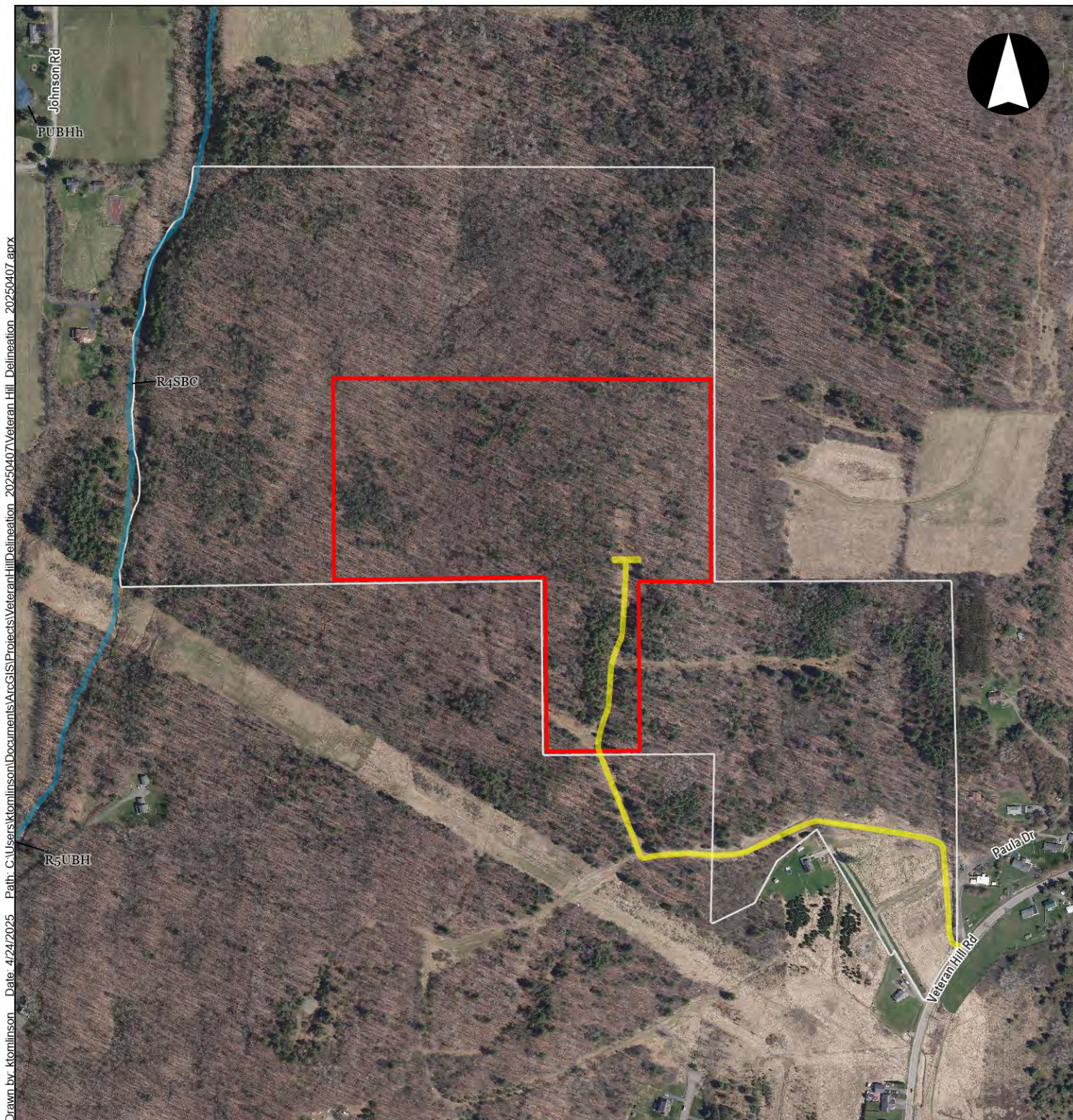
Legend

- Study Area (04/07/2025)
- Previously Delineated Area (12/19/2023)
- Previously Delineated Area (10/10/2024)
- Parcel Boundary
- Proposed Access Road

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 375 750
Feet
1 inch equals 750 feet

Figure 2
Aerial Overview
April 2025



Drawn by: ktonlinson Date: 4/24/2025 Path: C:\Users\ktonlinson\Documents\ArcGIS\Projects\Veteran Hill Delineation - 20250407.aprx

akrf

Data source: USFWS NWI Mapper last updated March, 2025.

Legend

- Study Area (04/07/2025)
- Parcel Boundary
- Proposed Access Road

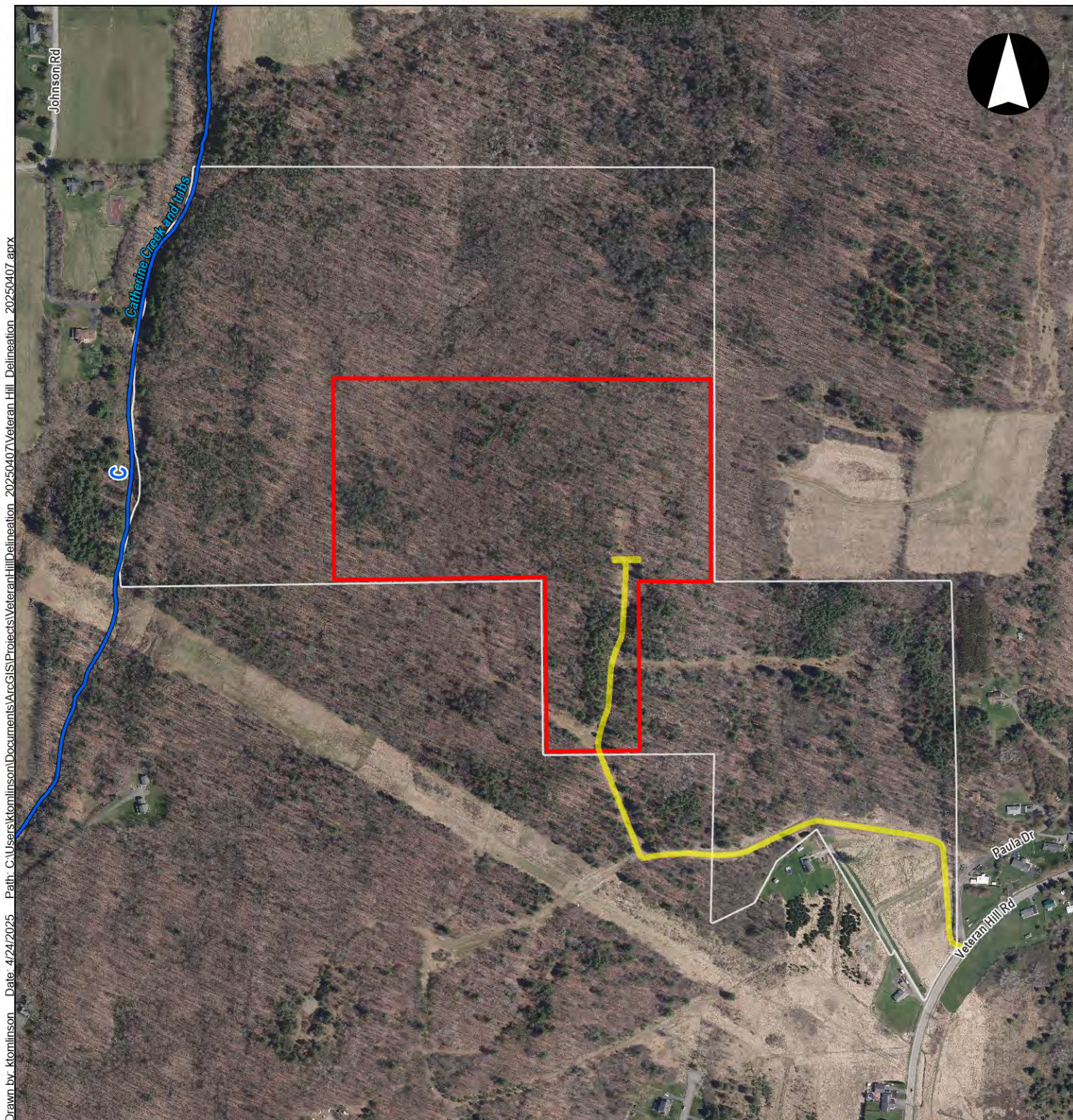
NWI Wetland Type

- Freshwater Pond
- Riverine

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 375 750
Feet
1 inch equals 750 feet

Figure 3
NWI Wetlands
April 2025



Drawn by: ktonlinson Date: 4/24/2025 Path: C:\Users\ktonlinson\Documents\ArcGIS\Projects\Veteran Hill Delineation - 20250407\Veteran Hill Delineation - 20250407.aprx

akrf

Data source: <https://data.gis.ny.gov/> published by NYSDEC. Mapped wetlands last updated February 2023 and Priority Waterbodies last updated April 2024

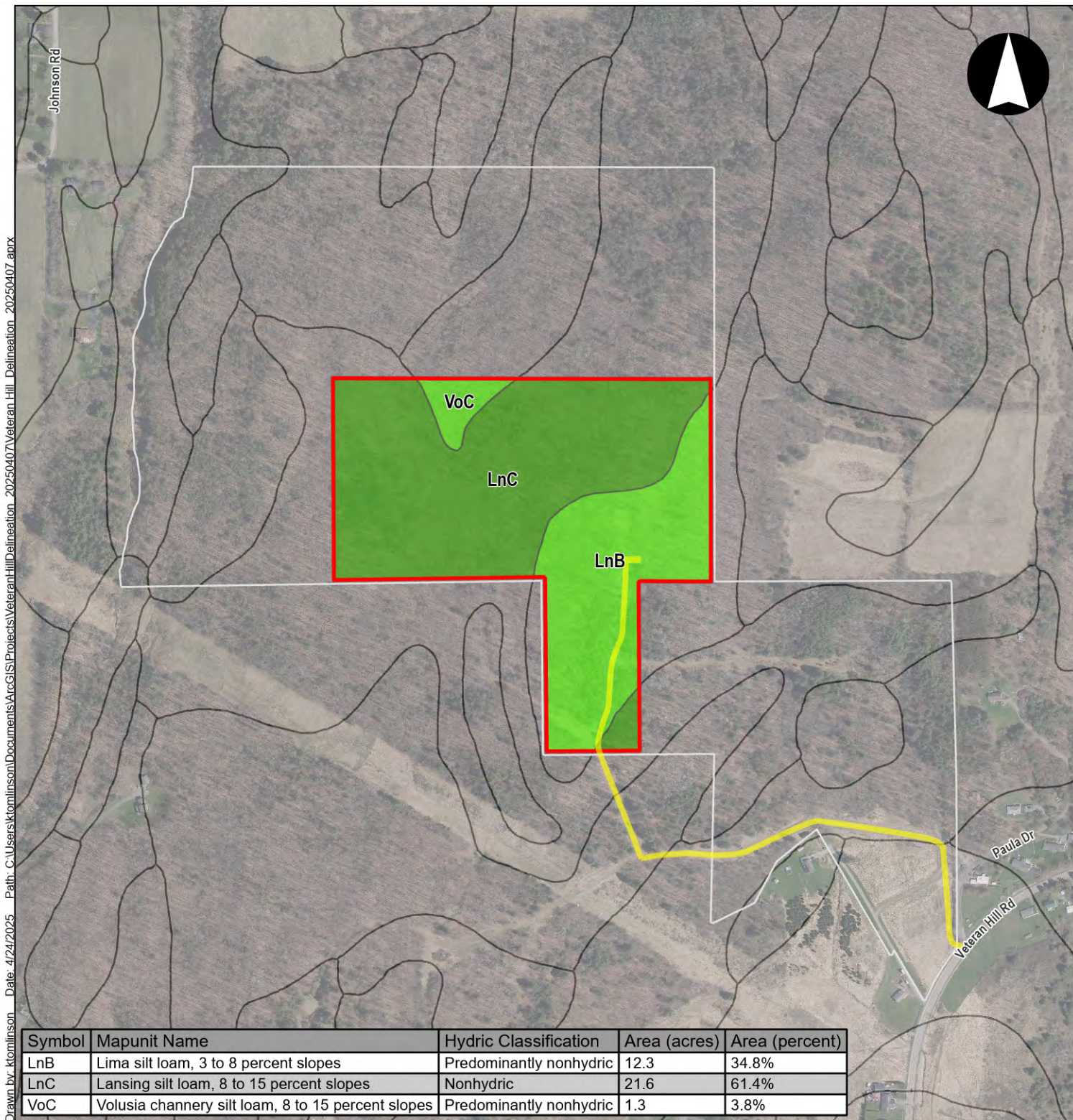
Legend

- Study Area (04/07/2025)
- Parcel Boundary
- Proposed Access Road
- ~ NYSDEC Priority Streams

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 375 750
Feet
1 inch equals 750 feet

Figure 4
NYSDEC Wetlands and Priority Waters
April 2025



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Data source: USDA NRCS Web Soil Survey
SSURGO dataset. Last updated October
2024.

Legend

- Study Area (04/07/2025)
- Parcel Boundary
- Proposed Access Road
- NRCS Soil Boundaries

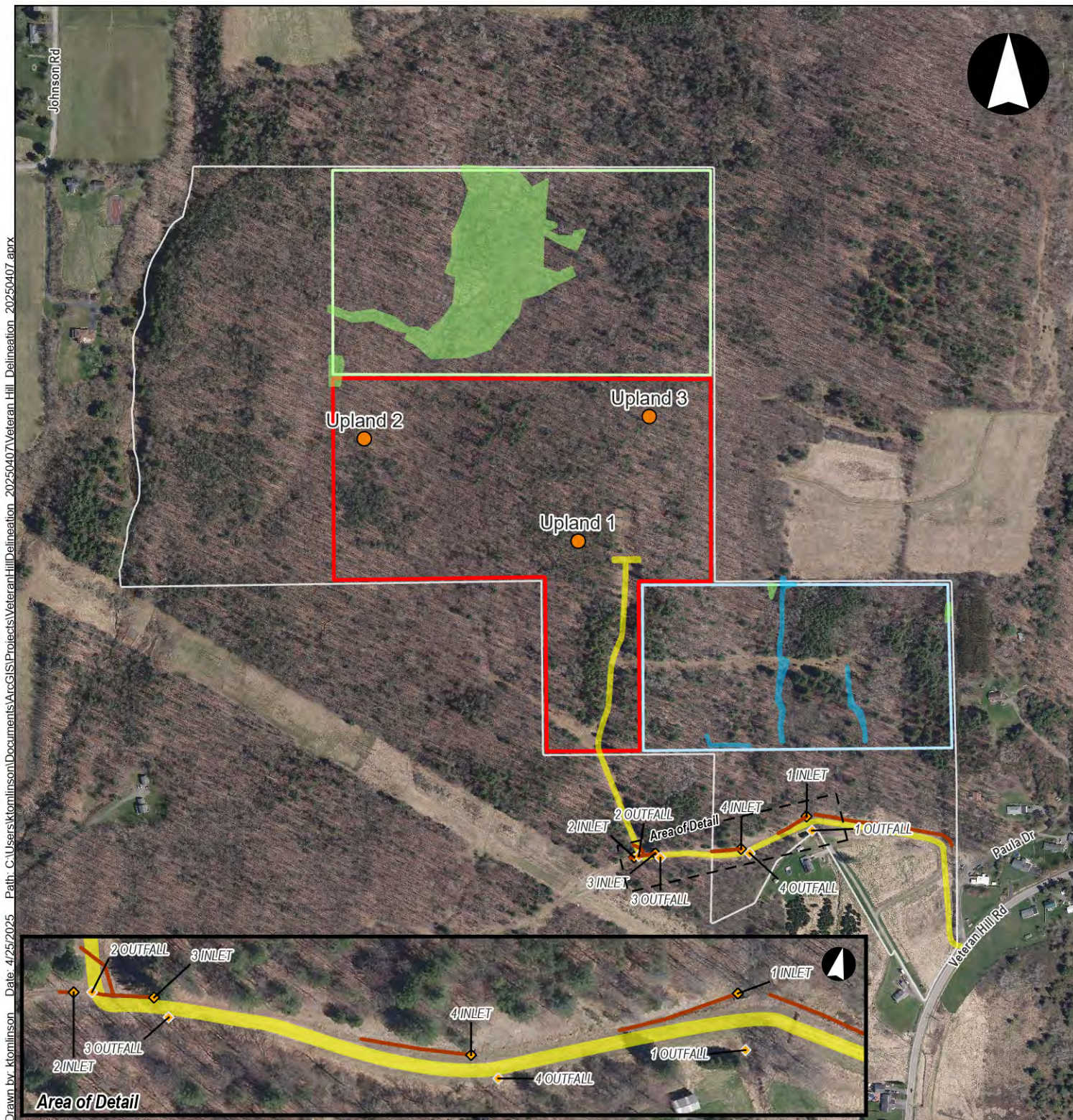
Hydric Classification

- Predominantly nonhydric
- Nonhydric

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 375 750
Feet
1 inch equals 750 feet

Figure 5
NRCS Soils
April 2025



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Wetland Investigation was conducted by AKRF on April 7, 2025. Ditches and culverts were identified on April 21, 2025. Previous delineations were performed on December 9, 2023 and October 10, 2024.

Legend

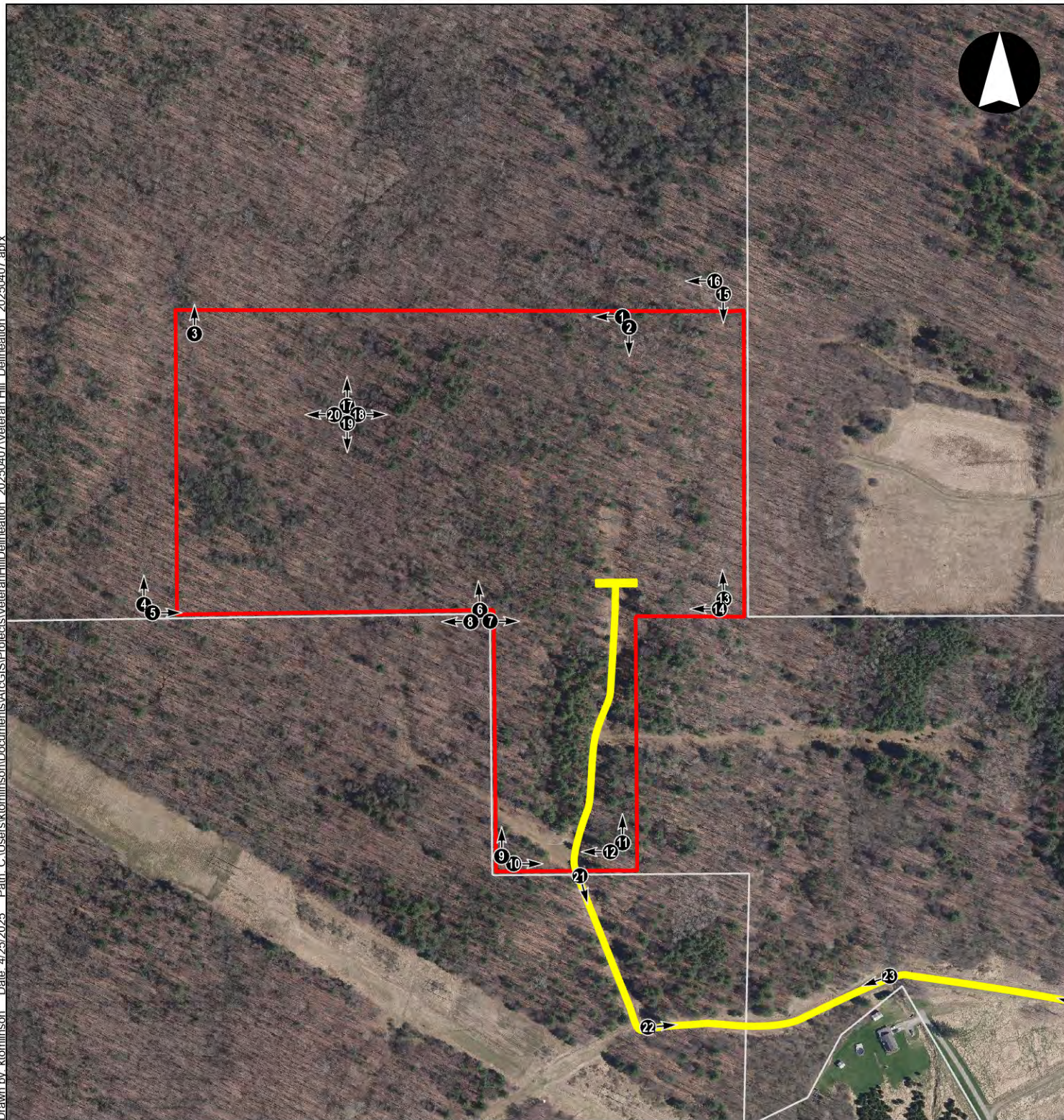
- Study Area (04/07/2025)
- Previously Delineated Area (12/19/2023)
- Previously Delineated Area (10/10/2024)
- Parcel Boundary
- Proposed Access Road
- Ditch
- ◆ Culvert Inlet
- ◇ Culvert Outfall

0 375 750
Feet
1 inch equals 750 feet

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

Figure 6
Study Area Investigation Overview
April 2025

Drawn by: ktonlinson Date: 4/25/2025 Path: C:\Users\ktonlinson\Documents\ArcGIS\Projects\Veteran Hill\Delineation_20250407.aprx



akrf

NOTE: Photographs were taken by AKRF on April 7 and 21, 2025.

Legend

-  Study Area (04/07/2025)
-  Parcel Boundary
-  Proposed Access Road
-  Photograph Location

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY
April 2025 Wetland Delineation

0 250 500
Feet
1 inch equals 500 feet

Attachment A
Photograph Location
April 2025

ATTACHMENT A
Study Area Photographic Log



Photo 1. Photo facing west along northern investigation boundary. Photo taken from northeastern quadrant of investigation area.



Photo 2. Photo facing south, upgradient, along access trail. Photo taken from northeastern quadrant of investigation area.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7, 2025



Photo 3. Photo view facing north with previously delineated wetland WD visible in the background. Photo taken from northwest corner of investigation area.



Photo 4. Photo view facing north, upgradient, along western investigation area boundary. Photo taken from southwestern corner of investigation area limits.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 5. Photo view east along inspection area southern limit. Photo taken at SW corner of investigation area.



Photo 6. Photo view facing north from the southern investigation area at parcel boundary elbow. The investigation area boundary turns 90 degrees to the south at this location.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 7. Photo view facing east from the southern investigation area at parcel boundary elbow. The investigation area boundary turns 90 degrees to the south at this location



Photo 8. Photo view facing west from the southern investigation area at parcel boundary elbow. The investigation area boundary turns 90 degrees to the south at this location



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 9. Photo view facing north, upgradient, depicting typical upland community with white pine (*Pinus strobus*, FACU) and red oak (*Quercus rubra*, FACU) visible throughout. Photo taken from southwestern-most corner of investigation area.



Photo 10. Photo view facing east toward access trail at southern limits of investigation area. White pine (*Pinus strobus*, FACU) and shagbark hickory (*Carya ovata*, FACU), and Morrow's honeysuckle (*Lonicera morrowii*, FACU) visible throughout. Photo taken from southwestern-most corner of investigation area.

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**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 11. Photo view facing north, upgradient, depicting typical upland community with white pine (*Pinus strobus*, FACU) and Morrow's honeysuckle (*Lonicera morrowii*, FACU) visible throughout. Photo taken from southeastern-most corner of investigation area.



Photo 12. Photo view facing west, upgradient, depicting typical upland community with white pine (*Pinus strobus*, FACU) and Morrow's honeysuckle (*Lonicera morrowii*, FACU) visible throughout. Photo taken from southeastern-most corner of investigation area.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 13. Photo view facing north along eastern investigation area boundary. Photo taken at southeastern corner of investigation area, typical upland community.



Photo 14. Photo view facing west along southern investigation area boundary. Photo taken at southeastern corner of investigation area, typical upland community.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 15. Photo view facing south along eastern investigation area boundary. Photo taken at northeastern corner of investigation area, typical upland community. Access trail visible in center of photo.



Photo 16. Photo view facing west along northern investigation area boundary. Photo taken at northeastern corner of investigation area, typical upland community.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 17. Photo view facing north from central portion of investigation area. View depicting typical upland community within project site.



Photo 18. Photo view facing east from central portion of investigation area. View depicting typical upland community within project site.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 19. Photo view facing south from central portion of investigation area. View depicting typical upland community within project site.



Photo 20. Photo view facing west from central portion of investigation area. View depicting typical upland community within project site.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B - Study Area Photographs

Photo Source: AKRF, Inc. April 7th, 2025



Photo 21. Photo view facing south, down gradient along proposed site access/project interconnection route. Photo taken from northeastern portion of proposed site access/project interconnection route.



Photo 22. Photo view facing east, cross gradient along proposed site access/project interconnection route. Photo taken from northward turn on proposed site access/project interconnection route.

akrf

**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B Study Area Photographs

Photo Source: AKRF, Inc. April 7, 2025



Photo 23. Photo view facing west, upgradient along proposed site access/project interconnection route. Photo taken from existing access road gate.



Photo 24. Photo facing west, upgradient along proposed site access/interconnection route. Photo taken from westward turn on existing access road, access road gate visible in distance.



**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B- Study Area Photographs

Photo Source: AKRF, Inc. April 7, 2025

ATTACHMENT B

USACE Wetland Determination Data Forms (ENG 6116-8)

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 4/7/25
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: UPL 1
Investigator(s): Jerry Peake Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 42.205981 Long: -76.796080 Datum: WGS1983
Soil Map Unit Name: Lima silt loam, LnB - 3% to 8% slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
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Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL 1

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Pinus strobus</u>	<u>75</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. <u>Quercus rubra</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Fagus grandifolia</u>	<u>15</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Quercus alba</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>130</u>		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>175</u></td> <td>x 4 = <u>700</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>175</u></td> <td>(A) <u>700</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>175</u>	x 4 = <u>700</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>175</u>	(A) <u>700</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>175</u>	x 4 = <u>700</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>175</u>	(A) <u>700</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																				
1. <u>Pinus strobus</u>	<u>25</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Fagus grandifolia</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>45</u>		=Total Cover																		
Herb Stratum (Plot size: <u>5'</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____		=Total Cover																		
Woody Vine Stratum (Plot size: <u>30'</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____		=Total Cover																		

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

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point	UPL 1
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung Sampling Date: 4/7/2025
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: UPL 2
Investigator(s): Jerry Peake Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 2
Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 42.207098 Long: -76.799264 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, LnC - 8% to 15% slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
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Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL 2

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus rubra</u>	<u>45</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. <u>Pinus strobus</u>	<u>40</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Carya ovata</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Fagus grandifolia</u>	<u>8</u>	<u>No</u>	<u>FACU</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>103</u>		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>3</u></td> <td>x 3 = <u>9</u></td> </tr> <tr> <td>FACU species <u>129</u></td> <td>x 4 = <u>516</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>132</u></td> <td>(A) <u>525</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.98</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>3</u>	x 3 = <u>9</u>	FACU species <u>129</u>	x 4 = <u>516</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>132</u>	(A) <u>525</u> (B)	Prevalence Index = B/A = <u>3.98</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>3</u>	x 3 = <u>9</u>																			
FACU species <u>129</u>	x 4 = <u>516</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals <u>132</u>	(A) <u>525</u> (B)																			
Prevalence Index = B/A = <u>3.98</u>																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																				
1. <u>Quercus rubra</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Pinus strobus</u>	<u>8</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Ostrya virginiana</u>	<u>8</u>	<u>Yes</u>	<u>FACU</u>																	
4. <u>Carpinus caroliniana</u>	<u>3</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>29</u>		=Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>5'</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____		=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: <u>30'</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____		=Total Cover																		
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																				

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

SOIL

Sampling Point	UPL 2
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung Sampling Date: 4/7/2025
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: UPL 3
Investigator(s): Jerry Peake Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): None Slope %: 3
Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 42.207352 Long: -76.795026 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, LnC - 8% to 15% slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
---	---

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL 3

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus rubra</u>	<u>25</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. <u>Prunus serotina</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Fraxinus americana</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
4. <u>Pinus strobus</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Fagus grandifolia</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
6. <u>Populus grandidentata</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
7. <u>Populus tremuloides</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
<u>80</u> =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)																				
1. <u>Fagus grandifolia</u>	<u>35</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>150</u></td> <td>x 4 = <u>600</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals <u>150</u> (A)</td> <td><u>600</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>150</u>	x 4 = <u>600</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals <u>150</u> (A)	<u>600</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
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FAC species <u>0</u>	x 3 = <u>0</u>																			
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Column Totals <u>150</u> (A)	<u>600</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
2. <u>Pinus strobus</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Lonicera morrowii</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>65</u> =Total Cover																				
Herb Stratum (Plot size: <u>5'</u>)																				
1. <u>Mitchella repens</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>5</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30'</u>)																				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				

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

SOIL

Sampling Point	UPL 3
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site:	Veteran Hill Solar Project	City/County:	Chemung	Sampling Date:	4/21/25
Applicant/Owner:	Dynamic Energy LLC	State:	NY	Sampling Point:	UPL 4
Investigator(s):	Jerry Peake	Section, Township, Range:	Town of Veteran		
Landform (hillside, terrace, etc.):	Hillside	Local relief (concave, convex, none):	None	Slope %:	10
Subregion (LRR or MLRA):	LRR R, MLRA 140	Lat:	42.203188	Long:	-76.795530
Soil Map Unit Name:	Lima silt loam, LnB - 3% to 8% slopes	Datum:	WGS1983		
Soil NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year?		Yes	X	No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?		Yes	X	No	Are "Normal Circumstances" present?
Are Vegetation, Soil, or Hydrology naturally problematic?		(If needed, explain any answers in Remarks.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No	X	Is the Sampled Area within a Wetland?	Yes	No	X
Hydric Soil Present?	Yes	No	X		If yes, optional Wetland Site ID:		
Wetland Hydrology Present?	Yes	No	X				
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: UPL 4

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u><i>Pinus strobus</i></u>	<u>45</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>14.3%</u> (A/B)																
2. <u><i>Quercus alba</i></u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>65</u>	=Total Cover	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>125</u></td> <td>x 4 = <u>500</u></td> </tr> <tr> <td>UPL species <u>43</u></td> <td>x 5 = <u>215</u></td> </tr> <tr> <td>Column Totals <u>198</u> (A)</td> <td><u>795</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.02</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>125</u>	x 4 = <u>500</u>	UPL species <u>43</u>	x 5 = <u>215</u>	Column Totals <u>198</u> (A)	<u>795</u> (B)	Prevalence Index = B/A = <u>4.02</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
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Column Totals <u>198</u> (A)	<u>795</u> (B)																			
Prevalence Index = B/A = <u>4.02</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u><i>Quercus alba</i></u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u><i>Pinus strobus</i></u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u><i>Acer rubrum</i></u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u><i>Vaccinium corymbosum</i></u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
5. <u><i>Lonicera morrowii</i></u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
6. <u><i>Elaeagnus umbellata</i></u>	<u>8</u>	<u>No</u>	<u>UPL</u>																	
7. _____	_____	_____	_____																	
		<u>78</u>	=Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>5</u>)																				
1. <u><i>Danthonia spicata</i></u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>																	
2. <u><i>Taraxacum officinale</i></u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u><i>Potentilla canadensis</i></u>	<u>5</u>	<u>No</u>	<u>UPL</u>																	
4. <u><i>Plantago rugelii</i></u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		<u>55</u>	=Total Cover	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		_____	=Total Cover																	

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

SOIL

Sampling Point UPL 4

[illegible]

Memorandum

To: Matt McDevitt, Dynamic Energy LLC

From: Elizabeth Weatherby (Vice President); Edward McLaughlin (Environmental Scientist)

Date: November 22, 2024

Re: Veteran Hill Solar Project Wetland Delineation Memo

cc: Jason Funk, Dynamic Energy LLC

INTRODUCTION

Dynamic Energy LLC (Dynamic Energy) is proposing the development of a solar farm on a site located in the Town of Veteran in Chemung County, New York (proposed project). The study area is approximately 100 acres across four (4) parcels (see **Figure 1** and **Figure 2**). It is currently planned that the solar array will be located over undeveloped woodlands on Parcel 39.00-01-14.1 (project site). It is currently planned that the proposed site access and interconnection route will follow the eastern parcel boundary from Veteran Hill Road, bearing north, to the proposed project area in the northern portion of the parcel. The study area consists primarily of undeveloped old growth woodlands. It should be noted that AKRF previously performed a wetland delineation at this parcel on December 19, 2023, which focused on the prior study area located in the southern portion of the parcel. During the prior delineation, AKRF delineated three (3) streams (S1, S2, and S3). Streams S1 and S3 were determined to be ephemeral and stream S2 was determined to be perennial.

On October 9 and 10, 2024, AKRF delineated four (4) wetlands within the new, approximately 32-acre, project development site study area, which is located to the north of the previous study area. In addition, AKRF slightly expanded the previously delineated stream S2 to the north, to cover the area of the planned site access/project interconnection route.

METHODOLOGY

Prior to the wetland delineation, AKRF reviewed maps from the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (see **Figure 3**) and the New York State Department of Environmental Conservation (NYSDEC) (see **Figure 4**) for NWI-mapped and NYSDEC-mapped wetlands and priority waterbodies, respectively, within the study area. AKRF also reviewed the Natural Resources Conservation Service (NRCS) soils maps (see **Figure 5**) for soil types within the study area, with respect to soil series identified as hydric.

AKRF wetland scientists conducted the wetland delineation within the study area of the proposed project on October 9 and 10, 2024, using the U.S. Army Corps of Engineers (USACE) three parameter wetland delineation methodology¹ as described below for the three wetland indicators

¹ Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version

of hydrology, hydric soils and hydrophytic vegetation. The USACE *Wetland Determination Data Form – Northcentral and Northeast Region* (2012) was used to document the wetlands observed in the study area and photographs of the delineated wetlands are shown in **Attachment B**.

HYDROLOGY AND SOILS

AKRF characterized the hydrology within the study area using aerial photographs, site observations, and soil samples. An auger was used to collect the samples to determine soil saturation and/or a high-water table. The soil samples were characterized using the Munsell Soil Color Chart. During the wetland delineation, hydrology and soils observations were made during a period of dry weather.

VEGETATION

AKRF used the USACE *Northcentral and Northeast 2022 Regional Wetland Plant List* to determine the wetland/upland status² of the plant species identified within the study area. Percent cover was documented in the tree, woody vine, sapling/shrub, and herb strata. A 30-foot radius plot was established to document plant species percent cover in the tree and woody vine strata. Within this 30-foot plot, a 15-foot radius plot was established for the measurement of percent cover of shrubs and saplings. For species in the herb stratum, a 5-foot radius plot was established within the 30-foot radius plot.

WETLANDS, SURFACE WATERS MAPS, AND SOILS

NATIONAL WETLANDS INVENTORY-MAPPED WETLANDS

The NWI mapping does not depict any mapped wetlands within the study area; however, it does depict several mapped wetlands within the vicinity of the study area. A mapped riverine (R4SBC, Riverine Intermittent Streambed Seasonally Flooded) is located to the west of the study area, and a second mapped riverine (PUBHh, Palustrine Unconsolidated Bottom Permanently Flooded Diked/Impounded) is located to the east of the study area (see **Figure 3**). Additionally, further to the south of the study area is a NWI mapped freshwater pond (PUBHx, Palustrine Unconsolidated Bottom Permanently Flooded Excavated) and freshwater emergent wetland (PEM1E, Palustrine Emergent Persistent Seasonally Flooded/Saturated).

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED WETLANDS

NYSDEC wetland maps did not identify any wetlands or streams within the study area (see **Figure 4**). However, two (2) NYSDEC mapped Priority Streams are found within the vicinity of the study area: Catherine Creek and tributaries, is located to the west of the study area and North Branch Newton Creek and tributaries is located to the east of the study area.

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED PRIORITY WATERBODIES

The NYSDEC Priority Waterbodies mapping did not identify any mapped resources within the study area. However, as mentioned above, two NYSDEC Class C Priority Waterbody³, Catherine

2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

² Wetland/upland statuses for plant species include Obligate (OBL; occurring in wetlands greater than or equal to 99 percent of the time), Facultative Wetland (FACW; occurring in wetlands between 67 and 99 percent of the time), Facultative (FAC; occurring in wetlands between 34 and 66 percent of the time), Facultative Upland (FACU; occurring in wetlands between 1 and 33 percent of the time), and Upland (UPL; occurring in wetlands less than or equal to 1 percent of the time). Dominant species indicative of wetlands include species rated as OBL, FACW, and FAC.

³ Per 6 CRR-NY 701.8, "The best usage of Class C waters is fishing. These waters shall be suitable for fish, shellfish and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes."

Creek and tributaries (water index number Ont 66-12-P369- 59 (upper))⁴ to the west of the study area, and North Branch Newton Creek (water index number: Pa 3-28-13)⁵ to the east of the study area (see **Figure 4**). The study area is on the border of the Chemung River and Oswego River/Finger Lakes Watersheds.

NATURAL RESOURCES CONSERVATION SERVICE -MAPPED SOILS

NRCS-mapped soils within the study area (see **Figure 5**) are categorized into 15 different soil map units. The soil map units and their hydric rating (i.e., whether NRCS identifies the soil map unit as hydric) are summarized in **Table 1** below.

Table 1.
Natural Resource Conservation Service – Mapped Soils in the Study Area

Soil Map Unit Symbol	Soil Map Unit Name	Hydric Rating	Percent Cover
ArB	Arkport fine sandy loam, 3 to 8 percent slopes	Nonhydric	1.66%
ChA	Colton loamy fine sand, 0 to 3 percent slopes	Nonhydric	2.32%
LnB	Lima silt loam, 3 to 8 percent slopes	Predominantly nonhydric	4.45%
LnC	Lansing silt loam, 8 to 15 percent slopes	Nonhydric	35.17%
LnD	Lansing silt loam, 15 to 25 percent slopes	Nonhydric	2.79%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	Predominantly nonhydric	27.98%
VoC	Volusia channery silt loam, 8 to 15 percent slopes	Predominantly nonhydric	25.62%

WETLAND DELINEATION

AKRF wetland scientists performed a site review on October 9th and 10th, 2024, which resulted in the delineation of four (4) wetlands within the study area (see **Figure 6**). The study area is predominately an undeveloped old growth woodland. Forested uplands on-site are best classified as a mesophytic forest (Edinger, 2014) with red maple (*Acer rubrum*), white pine (*Pinus strobus*), pignut hickory (*Carya glabra*), American hornbeam (*Carpinus caroliniana*), and eastern cottonwood (*Populus deltoides*) dominant to varying degrees throughout the woodlands present on the study area. Weather conditions during the site review between the 9th and 10th were generally 44°F to 59°F with moderate rainfall occurring for approximately 2 hours beginning around 6pm on the night of the 9th. Soils were not frozen and vegetation had senesced. See **Attachment A, Figure 1** for an overview of the delineated boundaries for the wetland areas.

WETLAND WA

Wetland WA (0.018 acres) is a forested freshwater wetland located near the property boundary and proposed site access/interconnection route (see **Figure 6** and **Attachment A, Figure 1 and Figure 2A**). This wetland area is a localized depression. This wetland contains species such as red maple (*Acer rubrum*, FAC) in the tree stratum; white oak (*Quercus alba*, FACU) in the sapling/shrub stratum; fringed sedge (*Carex crinita*, OBL), giant goldenrod (*Solidago gigantea*,

⁴ [WI/PWL Fact Sheets - Seneca Lake Inlet Watershed \(0414020106\)](#)

⁵ [WI/PWL Fact Sheets - Middle Chemung River Watershed \(0205010505\)](#)

FACW), and woolgrass (*Scirpus cyperinus*, OBL) in the herb stratum. This passed the Dominance Test and Prevalence Index indicators for hydrophytic vegetation.

A soil sample from this wetland meets the criteria for the “F3 Depleted Matrix” and “F8 Redox Depressions” hydric soil indicators.

Primary hydrology indicators observed at this wetland include “B9 Water-Stained Leaves”. In addition, secondary hydrology indicators observed and include “B10 – Drainage Patterns”, “D1 Stunted or Stressed Plants”, and “D5 FAC-Neutral Test” (see **Attachment C** – USACE Data Form “Wetland WA”). Stunted or Stressed Plants included several white pines that were observed growing within and near this that showed signs of malnourishment, as compared to the healthy white pines further outside of this wetland

UPLAND WA

Upland W1-A describes the general upland conditions across much of the study area and is situated between wetlands WA and WB, serving to characterize the upland areas adjacent to both of these wetlands (see **Figure 6** and **Attachment A, Figure 1 and Figure 2A**). The vegetation observed in this upland included red maple (*Acer rubrum*, FAC), white pine (*Pinus strobus*, FACU) and pignut hickory (*Carya glabra*, FACU) in the tree stratum; bush honeysuckle (*Diervilla lonicera*, UPL) in the sapling/shrub stratum; and white ash (*Fraxinus americana* FACU), pignut hickory (*Carya glabra*, FACU) and Pennsylvania sedge (*Carex pensylvanica*, FACU) in the herb stratum. The vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology or hydric soils indicators. Therefore, this area does not meet the threshold for a wetland (see **Attachment C** – USACE Data Form “Upland WA”). It should also be noted that facultative vegetation (defined by USACE as “occur in wetlands and non-wetlands”), red maple (*Acer rubrum*) was observed throughout most of the upland areas on site.

WETLAND WB

Wetland WB (0.019 acres) is a scrub/shrub freshwater wetland located along the proposed site access/interconnection route (see **Figure 6** and **Attachment A, Figure 1 and Figure 2B**). This wetland area is a localized depression. This wetland contains species such as red maple (*Acer rubrum*, FAC) in the sapling/shrub stratum; sensitive fern (*Onoclea sensibilis*, FAC), New York fern (*Parathelypteris noveboracensis*, OBL) and shallow sedge (*Carex lurida*, OBL) in the herb stratum. This passed the Dominance Test and Prevalence Index indicators for hydrophytic vegetation.

A soil sample from this wetland meets the criteria for the “F3 Depleted Matrix” hydric soil indicator.

Primary hydrology indicators observed at this wetland include “B9 Water-Stained Leaves”. In addition, secondary hydrology indicators observed and include “B10 – Drainage Patterns”, “D4 Microtopographic Relief”, and “D5 FAC-Neutral Test” (see **Attachment C** – USACE Data Form “Wetland WB”).

WETLAND WC

Wetland WC (5.99 acres) is a forested freshwater wetland located within the proposed project development area and is the largest of the wetlands on-site (see **Figure 6** and **Attachment A, Figure 1 and Figure 2C**). This wetland area is located on a hillside, however, the wetland itself is generally flat containing minor changes in topography. Being situated between two areas of notable slopes has caused water to drain into this area and forming the wetland. In addition, the bedrock layer at this location is relatively high, located approximately 16 inches below the surface, which influences the hydrology and drainage patterns within this wetland. Within this wetland, there are three (3) locations where minor drainage corridors form on the hillside and drain into the larger wetland complex. The wetland receives hydrologic input from the hillside located to the

west and ultimately drains to the east where slopes increase and the wetland narrows forming a distinct drainage pattern. This wetland contains species such as red maple (*Acer rubrum*, FAC) and pin oak (*Quercus palustris*, FACW) in the tree stratum; American hornbeam (*Carpinus caroliniana*, FAC), red maple (*Acer rubrum*, FAC) and white ash (*Fraxinus americana* FACU) in the sapling/shrub stratum; cinnamon fern (*Osmundastrum cinnamomeum*, FACW), New York fern (*Parathelypteris noveboracensis*, FAC) and fringed sedge (*Carex crinita*, OBL), and fowl manna grass (*Glyceria striata*, OBL) in the herb stratum. This passed the Dominance Test and Prevalence Index indicators for hydrophytic vegetation.

A soil sample from this wetland meets the criteria for the “F3 Depleted Matrix” and “A11 Depleted Below Dark Surface” hydric soil indicators.

Primary hydrology indicators observed at this wetland include “B9 Water-Stained Leaves”. In addition, secondary hydrology indicators observed and include “B10 – Drainage Patterns” and “D4 Microtopographic Relief” (see **Attachment C** – USACE Data Form “Wetland WC”).

UPLAND WC

Upland WC is situated between wetlands WC and WD, serving to characterize the upland areas adjacent to both of these wetlands (see **Figure 6** and **Attachment A, Figure 1 and Figure 2C**). The vegetation observed in this upland included red maple (*Acer rubrum*, FAC), shagbark hickory (*Carya glabra*, FACU), white oak (*Quercus alba*, FACU), American hornbeam (*Carpinus caroliniana*, FAC) and slippery elm (*Ulmus rubra*, FAC) in the tree stratum; bush honeysuckle (*Diervilla lonicera*, UPL) in the sapling/shrub stratum; and New York fern (*Parathelypteris noveboracensis*, OBL) and Pennsylvania sedge (*Carex pennsylvanica*, FACU) in the herb stratum. The vegetation does not meet the criteria for hydrophytic vegetation. In addition, this area contained no wetland hydrology indicators observed. However, the soil sample in this location was marginal, and did meet the hydric soil indicator for “A11 Depleted Below Dark Surface”. Even though hydric soils were observed this area does not meet the threshold for a wetland since there was no hydrology indicators or hydric vegetation (see **Attachment C** – USACE Data Form “Upland WC”).

WETLAND WD

Wetland WD (0.11 acres) is An isolated forested freshwater wetland located in the southwestern corner of the study area for the proposed development (see **Figure 6** and **Attachment A, Figure 1 and Figure 2C**). This wetland area is a localized depression. This wetland contains species such as red maple (*Acer rubrum*, FAC) and slippery elm (*Ulmus rubra*, FAC) in the tree stratum; red maple (*Acer rubrum*, FAC) and slippery elm (*Ulmus rubra*, FAC) in the sapling/shrub stratum; northern dewberry (*Rubus flagellaris*, FACU), New York fern (*Parathelypteris noveboracensis*, OBL) and shallow sedge (*Carex lurida*, OBL) in the herb stratum. This passed the Dominance Test and Prevalence Index indicators for hydrophytic vegetation.

A soil sample from this wetland meets the criteria for the “F3 Depleted Matrix” and “A11 Depleted Below Dark Surface” hydric soil indicators.

Primary hydrology indicators observed at this wetland include “B9 Water-Stained Leaves”. In addition, secondary hydrology indicators observed and include “B16 – Moss Trim Lines” and “D4 Microtopographic Relief” (see **Attachment C** – USACE Data Form “Wetland WC”).

SURFACE WATERS

STREAM S2

As discussed above, stream S2 was previously delineated by AKRF on December 19, 2023. During the delineation on October 9th and 10th, 2024, AKRF slightly expanded the previously

delineated stream S2 to the north, to cover the area of the planned site access/project interconnection route. This stream is a perennial stream with well-defined banks that flows from north to south through the proposed site access/project interconnection route (see **Figure 6** and **Attachment A, Figure 1 and Figure 2C**).

PRELIMINARY JURISDICTIONAL SUMMARY AND CONCLUSION

Four (4) freshwater wetlands were delineated within the study area (Wetlands WA, WB, WC, and WD). Per review of NOAA 2019 LiDAR topographic contours, it appears that Wetlands WA and WD do not have a connection to any waterways through Relatively Permanent Waters (RPW), nor any connection to NYSDEC mapper freshwater wetlands or check zones. Wetland WD is a localized depression and is isolated. Wetland WA is also a localized depression and is likely isolated. However, as this wetland is situated adjacent to the property boundary, AKRF was unable to delineate areas of this wetland located off-site to establish isolation. Wetland WB is situated adjacent to Stream S2. This wetland is also located adjacent to the property boundary and AKRF was not able to delineate off-site portions of this wetland to establish whether it contains a connection to Stream S2. However, this wetland does not contain any connection to NYSDEC mapped freshwater wetlands. It should be noted that these wetlands are characterized by their herbaceous vegetation layer and subtle drainage patterns. The previous wetland delineation conducted by AKRF took place out of the growing season on December 19, 2024, and a thin layer of snow was on the ground. Due to these factors, Wetlands WA and WB were not identifiable during that time of year and within those weather conditions. Pursuant to the field review, the western extent of Wetland WC forms a drainage pattern bearing westwardly towards Catherine Creek and tributaries. Based on review of the NOAA 2019 LiDAR topographic contours, it is unclear whether this feature continues towards and forms a connection with Catherine Creek and tributaries. In addition, there was no observed connection to this waterway through RPW, nor any connection to any NYSDEC mapped freshwater wetlands.

It should be noted that the NYSDEC are changing their freshwater wetlands rules⁶, beginning January 1, 2025, wherein their freshwater wetlands mapping will no longer limit NYSDEC regulatory jurisdiction to wetlands depicted on those maps. Additionally, small wetlands (less than 12.4 acres) of “unusual importance” will be regulated if they meet one of the 11 newly established criteria for unusual importance. As defined in the NYSDEC “Questions and Answers on Amendments to the Freshwater Wetlands Act”⁷, dated August 14, 2024, one of these criteria establishes that the State will regulate wetlands less than 12.4 acres located within an Urban Area as defined by the US Census Bureau. In addition, the State will also regulate wetlands less than 12.4 acres within a 2.48-mile buffer from an Urban Area if they are within a USGS HUC 12 watershed having 2% or greater impervious surface and less than 5% floodwater storage capacity. The study area and delineated wetlands are located within 2.48 miles of the “Elmira, NY” Urban Area (code 27118), and also located within the North Branch Newtown Creek (HUC 12 020501050501) and Headwaters Catherine Creek (HUC 12 041402010601) HUC 12 watersheds. Pursuant to the NYSDEC informational webinar on August 1, 2024⁸, which provides detail and context for the upcoming regulatory changes, NYSDEC has established a database of those watersheds meeting those criteria. However, this database does not yet appear to be available to the public. Therefore, it is unclear whether the onsite watersheds contain 2% or greater impervious surface and less than 5% floodwater storage capacity.

As such, a Joint Jurisdictional Determination is recommended for all wetlands on-site to confirm NYSDEC jurisdiction and the need for a Water Quality Certification (WQC) and USACE

⁶ [Amendments to Article 24 Freshwater Wetlands](#)

⁷ <https://dec.ny.gov/sites/default/files/2024-07/644qna.pdf>

⁸ [Freshwater Wetlands Proposed Regulation Changes: An Overview-20240801 1803-1 - NYS Information Technology Service WebEx Enterprise Site](#)

jurisdiction as Waters of the United States under Sections 401/404 of the Clean Water Act (CWA)⁹.

One (1) stream (Stream 2) was delineated in the study area as an extension of a previously delineated stream (Stream 2) on December 19, 2023. Stream 2 is a perennial stream that likely drains offsite to North Branch Newtown Creek and tributaries through several culverted connections. As this off-site connection to Traditional Navigable Waterway (TNW)¹⁰ was not verifiable with information and resources available, a Joint Jurisdictional Determination is recommended to confirm USACE jurisdiction of Stream 2 as Waters of the United States under Sections 401/404 of the Clean Water Act (CWA)¹¹ and the need for a Water Quality Certification (WQC) from NYSDEC. Stream 2 is an unmapped tributary to a NYSDEC Class C Priority Stream but it is unlikely to be regulated by the NYSDEC under the Protection of Waters Act (Article 15 of ECL).

⁹ NYSDEC would be responsible for administering the Section 401 Water Quality Certificate (WQC).

¹⁰ 7 Traditional Navigable Waters are "...those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce" (33 CFR Part 329). Available:

<https://www.nap.usace.army.mil/Portals/39/docs/regulatory/regs/33cfr329.pdf> (accessed on November 4, 2024).

¹¹ NYSDEC would be responsible for administering the Section 401 Water Quality Certificate (WQC).

Figures:

- Figure 1 – Aerial Overview Map
- Figure 2 – USGS (NYSDOT) Topographic Map
- Figure 3 – NWI Wetlands Map
- Figure 4 – NYSDEC Wetlands and Priority Waterbodies
- Figure 5 – NRCS Soil Survey Map
- Figure 6 – Delineated Wetlands Overview Map
- Figure 7 – Photograph Locations

Attachments:

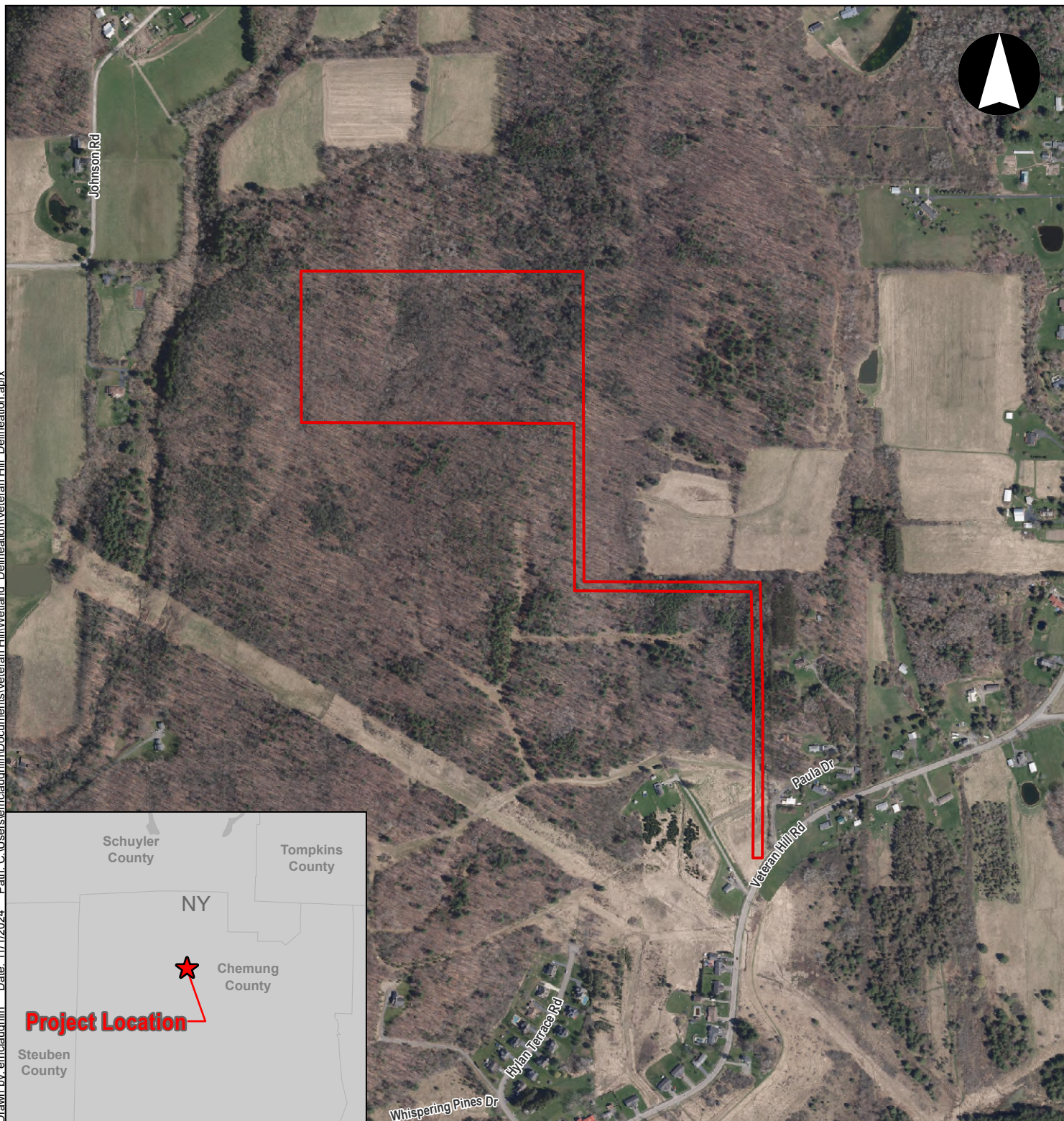
- Attachment A – Delineated Wetlands Drawings
 - Figure 1 – Delineated Wetlands Figure Extent Map
 - Figure 2 – Delineated Wetlands Details Map
- Attachment B – Study Area Photographs
- Attachment C – USACE Wetland Determination Data Forms (ENG 6116-8)

REFERENCES

Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological Communities of New York State*. Second Edition. A revised and expanded edition of Carol Reschke's *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY

Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0)*, ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Drawn by: emclaughlin Date: 11/1/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Weiland Delineation\Veteran Hill Delineation.aprx



akrf

Data source: Aerial imagery sourced from
2021 NYS Orthoimagry Program Office at
<https://ortho.dhss.ny.gov/>.

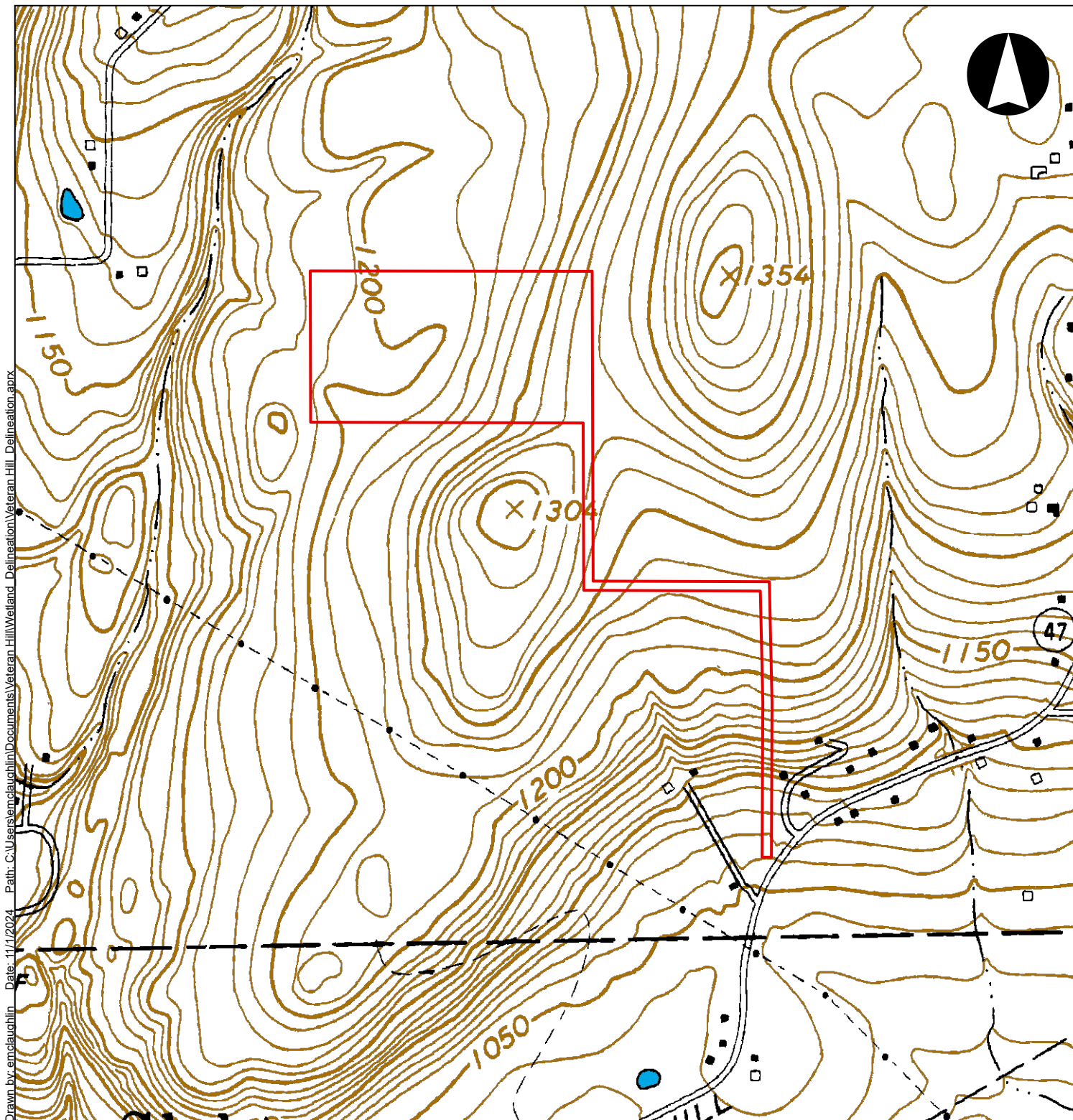
Legend

 Study Area

Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran
Chemung County, NY

0 500 1,000
Feet
1 inch equals 1,000 feet

Figure 1
Aerial Overview Map
November 2024



Drawn by: emclaughlin Date: 11/1/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx

akrf

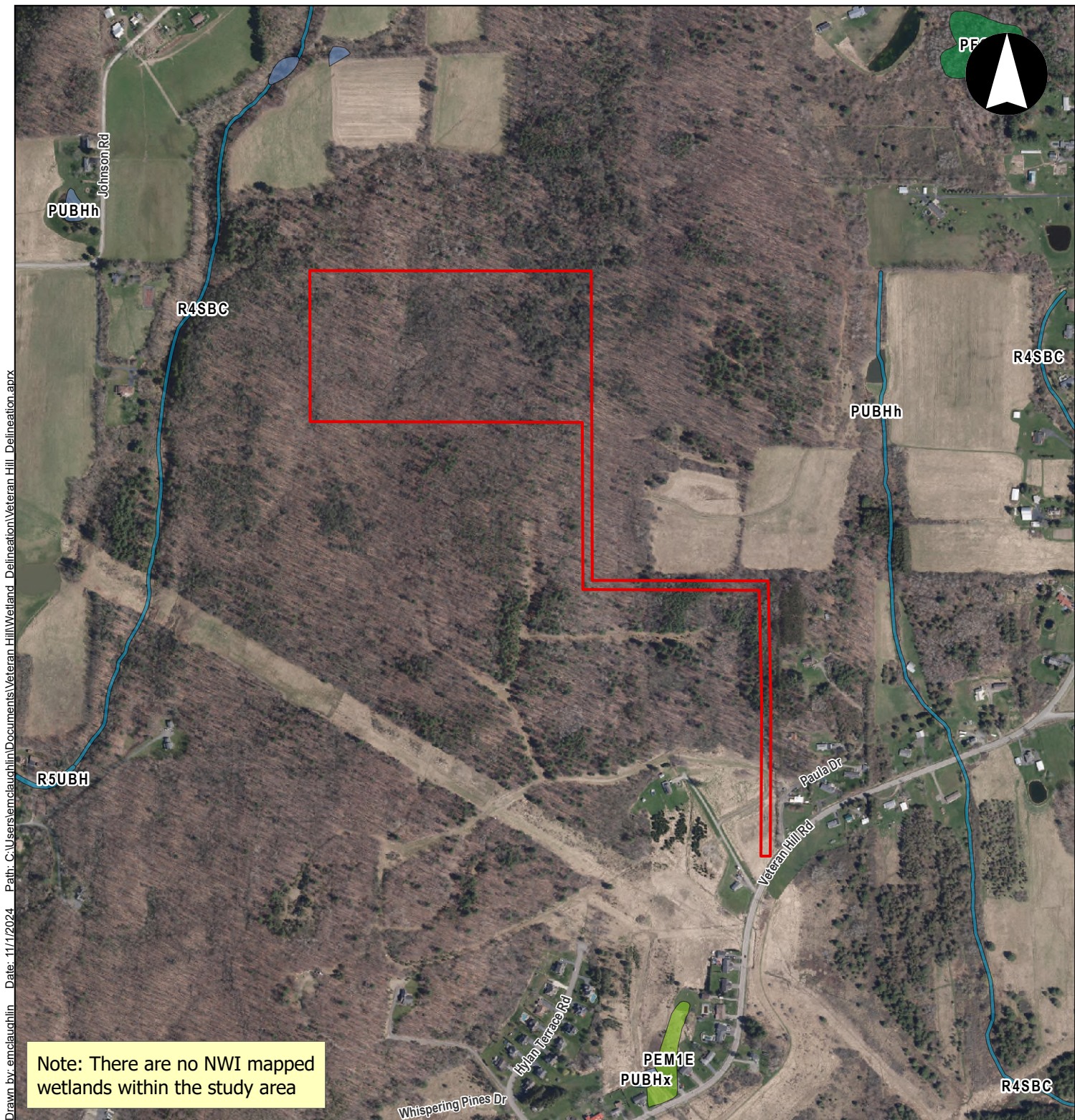
Data source: data.gis.ny.gov 24K Quad Map for Horseheads (W24) last updated March 2023.

Legend

Study Area

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Town of Veteran
Chemung County, NY

Figure 2
NYSOT Topographic Map
November 2024



akrf

Data source: USFWS NWI Mapper last updated October 2023.

Legend

Study Area

NWI Wetlands

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Riverine

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Veteran Hill Solar Project
Town of Veteran
Chemung County, NY

0 500 1,000 Feet
1 inch equals 1,000 feet

Figure 3
NWI Wetlands Map
November 2024



Drawn by: emclaughlin Date: 11/1/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx

akrf

Data source: <https://data.gis.ny.gov/> published by NYSDEC. Mapped wetlands last updated February 2023 and Priority Waterbodies last updated April 2024.

Legend

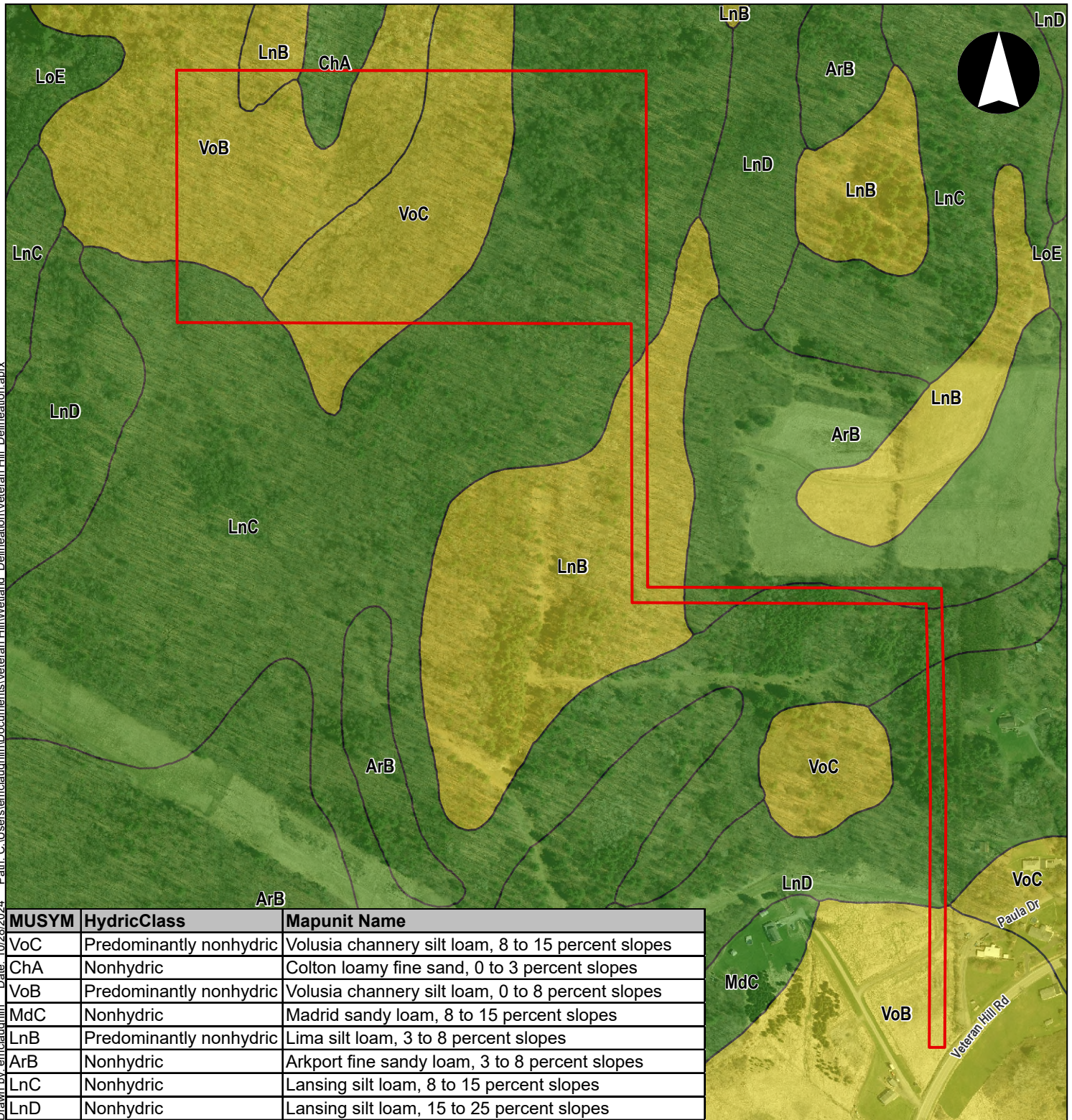
- Study Area
- NYSDEC Freshwater Wetlands
- NYSDEC Freshwater Wetlands Checkzones
- NYSDEC Priority Streams

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Veteran Hill Solar Project
Town of Veteran
Chemung County, NY

0 500 1,000
Feet
1 inch equals 1,000 feet

Figure 4
NYSDEC Wetlands and Priority Waters Map
November 2024

Path: C:\Users\emclaughlin\Documents\Veteran Hill\Weiland Delineation\Veteran Hill Delineation.aprx
Date: 10/28/2024
Drawn by: emclaughlin



MUSYM	HydricClass	Mapunit Name
VoC	Predominantly nonhydryc	Volusia channery silt loam, 8 to 15 percent slopes
ChA	Nonhydryc	Colton loamy fine sand, 0 to 3 percent slopes
VoB	Predominantly nonhydryc	Volusia channery silt loam, 0 to 8 percent slopes
MdC	Nonhydryc	Madrid sandy loam, 8 to 15 percent slopes
LnB	Predominantly nonhydryc	Lima silt loam, 3 to 8 percent slopes
ArB	Nonhydryc	Arkport fine sandy loam, 3 to 8 percent slopes
LnC	Nonhydryc	Lansing silt loam, 8 to 15 percent slopes
LnD	Nonhydryc	Lansing silt loam, 15 to 25 percent slopes

akrf
Data source: USDA NRCS Web Soil Survey
SSURGO dataset. Last updated December
2023.

Legend

 Study Area

NRCS Soils Survey
Hydric Classification

 Partially hydric

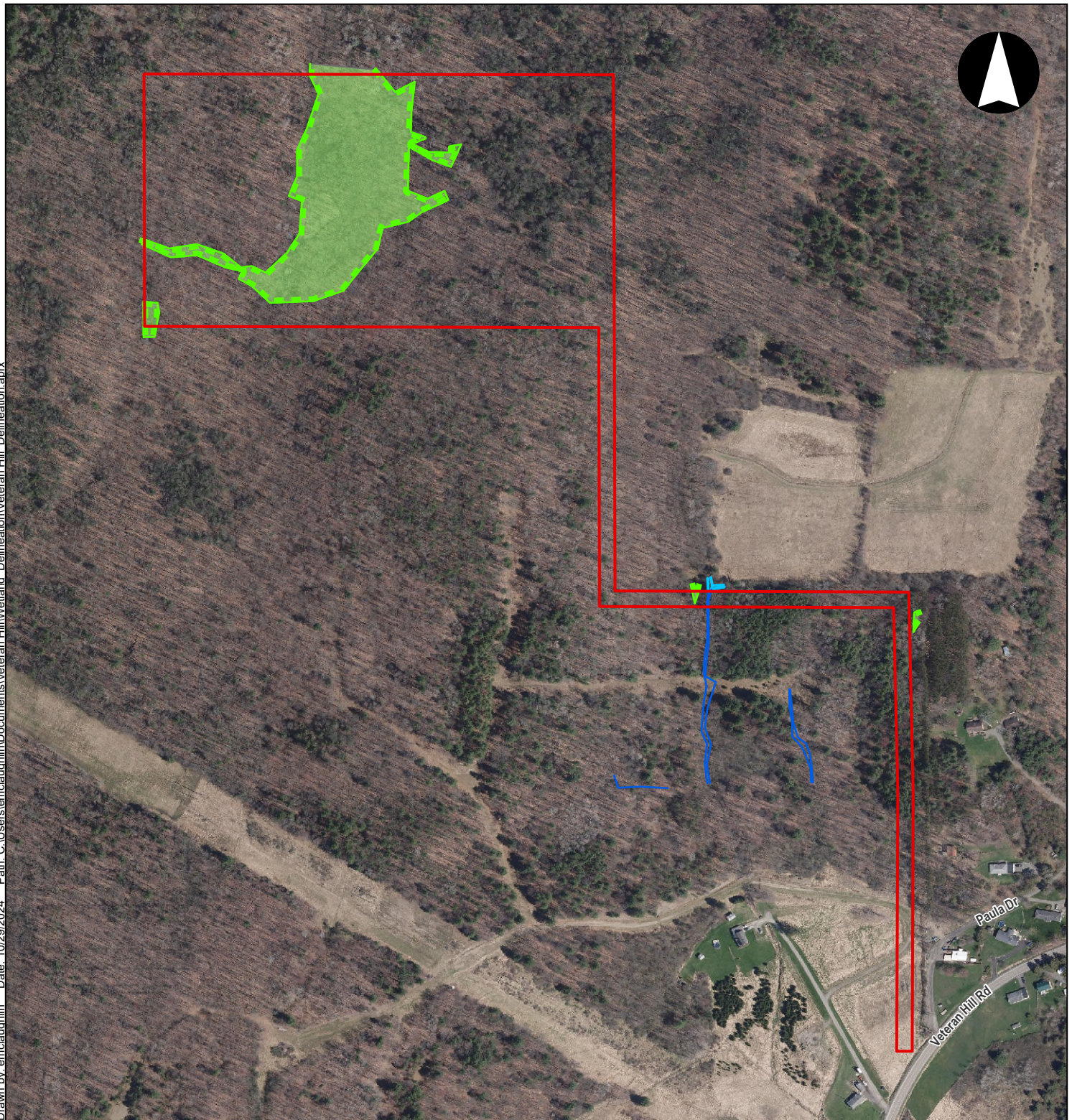
 Predominantly nonhydryc

 Nonhydryc

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Figure 5
NRCS Soil Survey Map
October 2024

Drawn by: emclaughlin Date: 10/29/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx



akrf

Wetland delineation was conducted by AKRF on October 9 and 10, 2024. Please see Attachment A for wetland delineation details.

Legend

- Study Area
- Delineated Wetland
- Wetland Boundary
- Delineated Stream (10/9/2024)
- Delineated Stream (12/19/2023)

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Town of Veteran
Chemung County, NY

0 300 600
Feet
1 inch equals 600 feet

Figure 6
Delineated Wetlands Overview Map
October 2024

Drawn by: emclaughlin Date: 11/1/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Weiland Delineation\Veteran Hill Delineation.aprx



akrf

NOTE: Photographs were taken by AKRF on October 9th and 10th, 2024.

Legend

-  Study Area
-  Photo Location and Direction

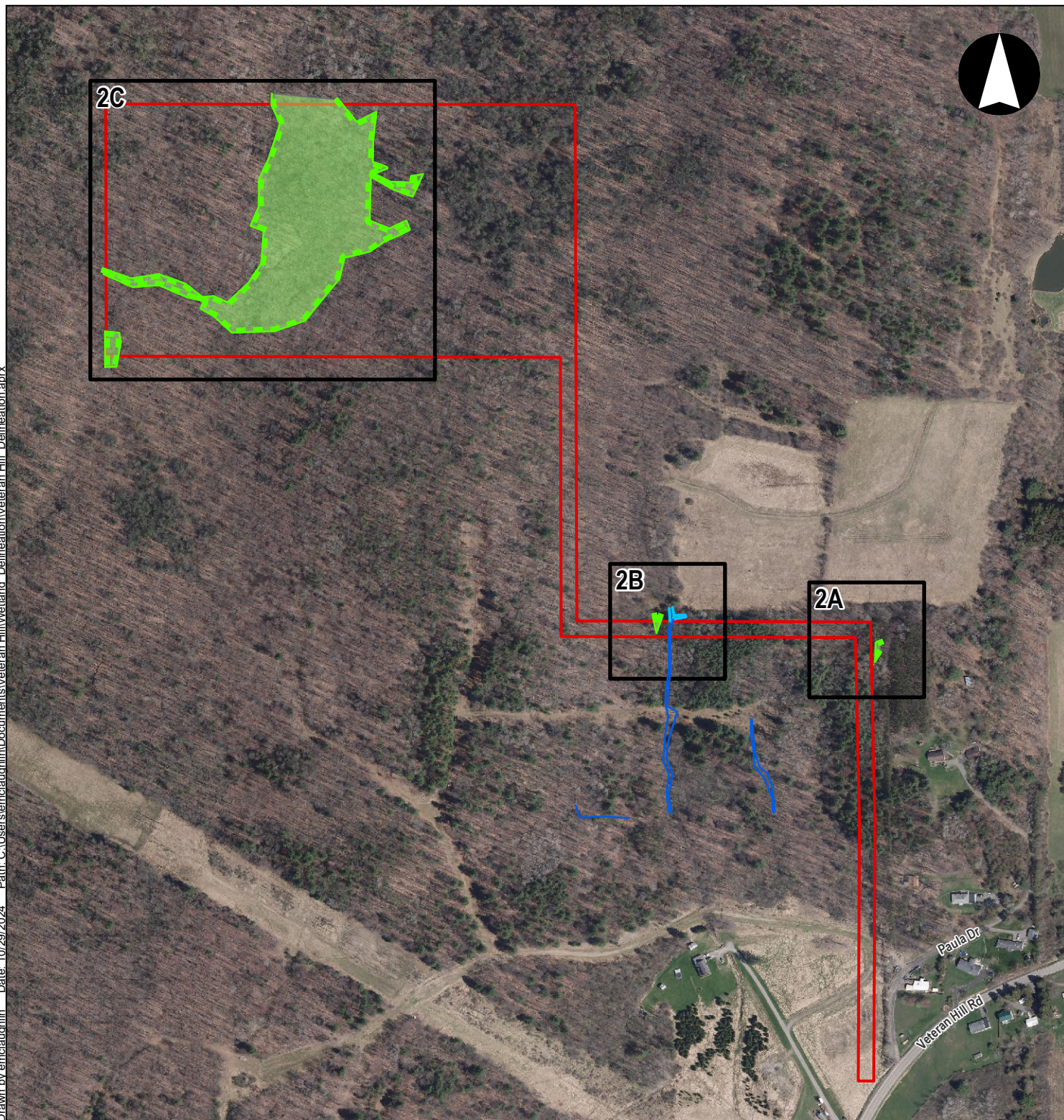
Dynamic Energy, LLC
Veteran Hill Solar Project
Town of Veteran
Chemung County, NY

0 300 600 Feet
1 inch equals 600 feet

Figure 7
Photograph Locations
November 2024

ATTACHMENT A
Delineated Wetlands Drawings

Drawn by emclaughlin Date: 10/29/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx



akrf

Data source: Aerial imagery is for 2021, obtained from <https://gis.ny.gov/orthoimagery>
NOTE: Wetland delineation was performed by AKRF on October 9 and 10, 2024.
Streams data from December 19, 2023 delineation as shown
*Boundary lines are hatched towards the interior of the delineated wetland.

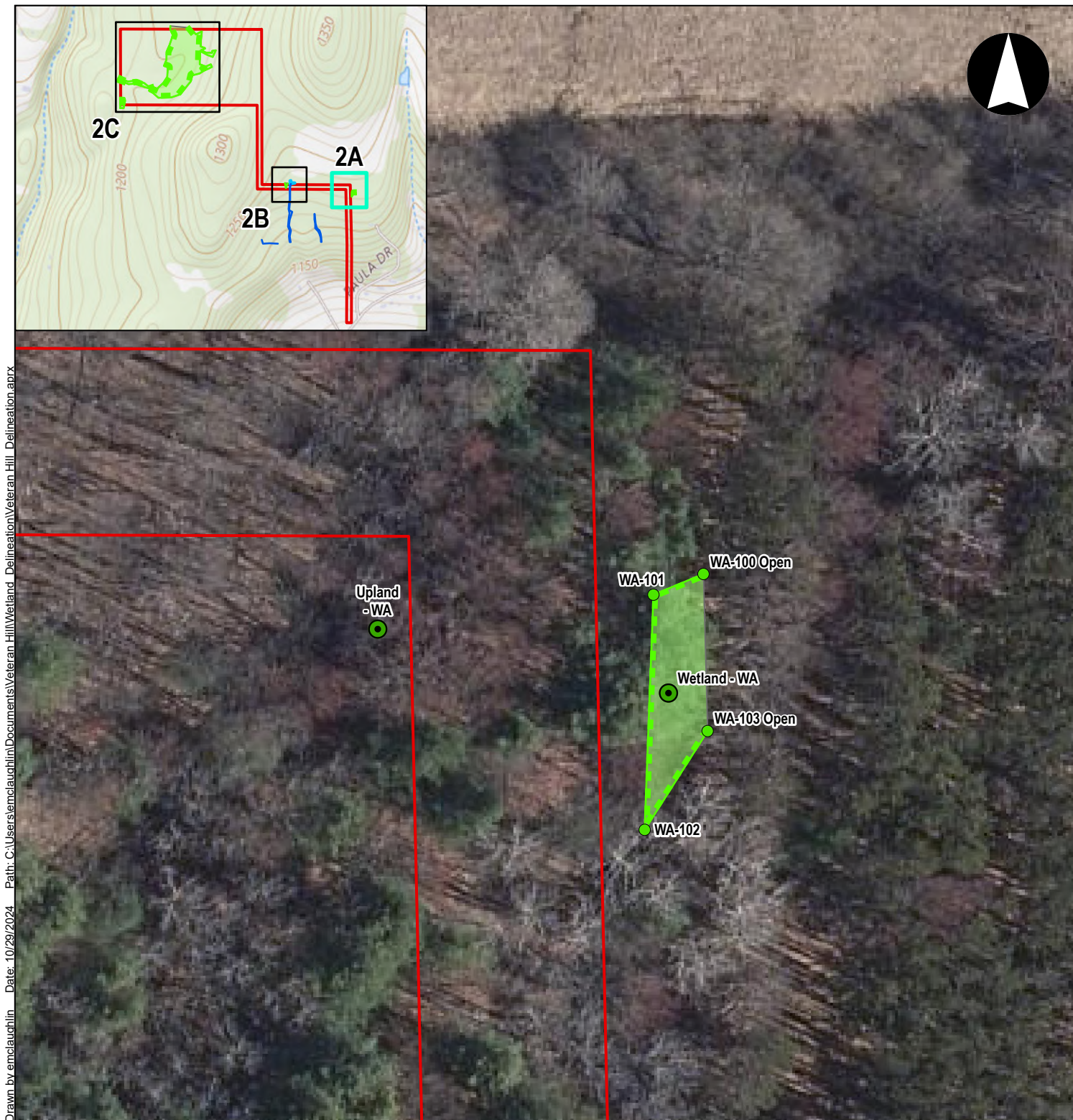
0 300 600
Feet
1 inch equals 600 feet

Legend

- Study Area
- Figure Number and Extent
- Wetland Boundary
- Delineated Wetland
- Delineated Stream (12/19/2023)
- Delineated Stream (10/9/2024)

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Chemung County, NY

Attachment A, Figure 1
Delineated Wetlands Figure Index
October 2024



Drawn by emelaughlin Date: 10/29/2024 Path: C:\Users\emelaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx

akrf

Data source: Aerial imagery is for 2021, obtained from <https://gis.ny.gov/orthoimagery>
 NOTE: Wetland delineation was performed by AKRF on October 9 and 10, 2024.
 Streams data from December 19, 2023 delineation as shown
 *Boundary lines are hatched towards the interior of the delineated wetland.

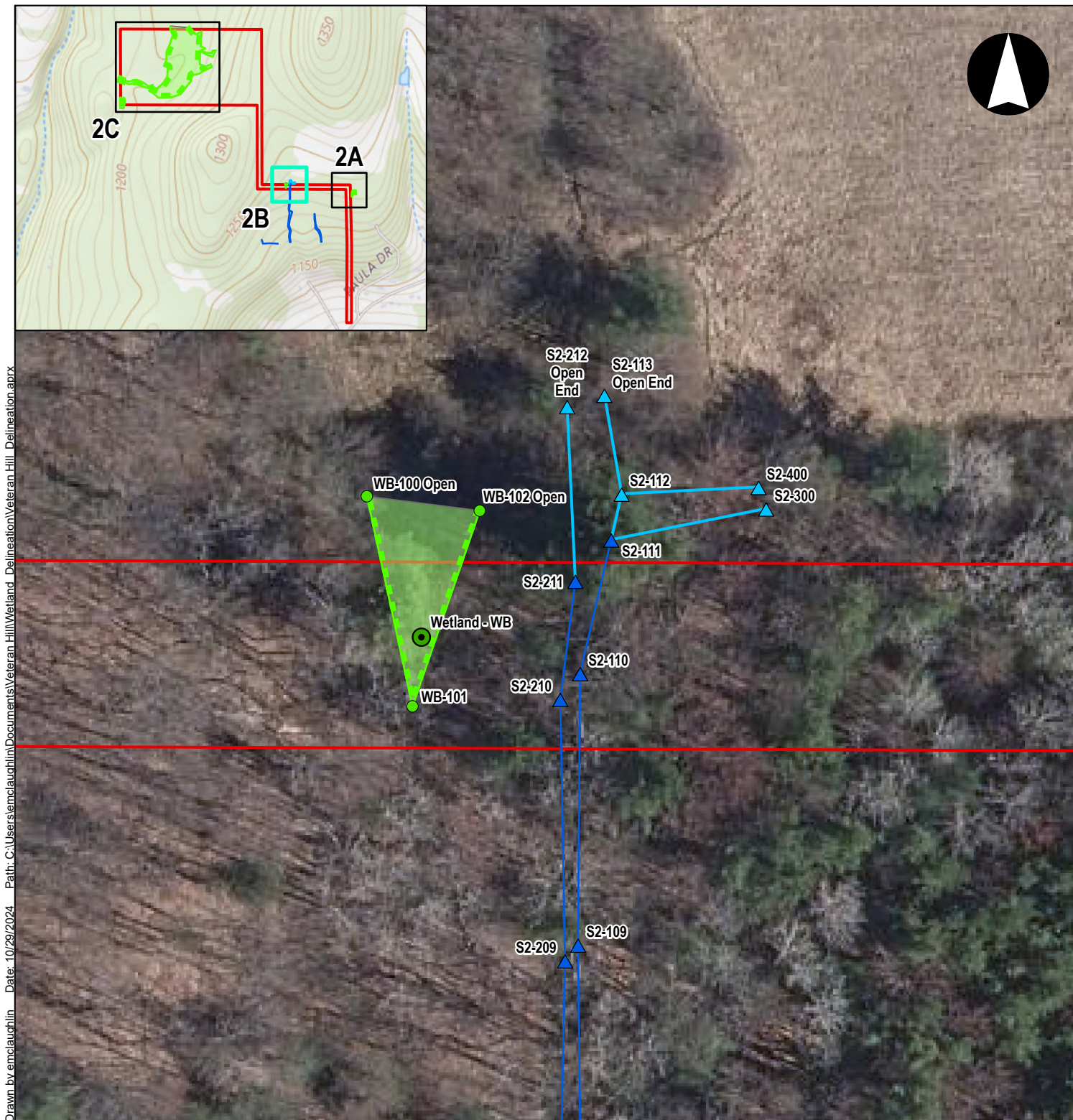
Legend

- Study Area
- Wetland Data Point
- Wetland Flags
- Wetland Boundary
- Delineated Wetland

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 Veteran Hill Solar Project
 Town of Veteran
 Chemung County, NY

0 25 50
 Feet
 1 inch equals 50 feet

Attachment A, Figure 2A
Delineated Wetlands Details Map
 October 2024



Drawn by emclaughlin Date: 10/29/2024 Path: C:\Users\emclaughlin\Documents\Veteran Hill\Wetland Delineation\Veteran Hill Delineation.aprx

akrf

Data source: Aerial imagery is for 2021, obtained from <https://gis.ny.gov/orthoimagery>
NOTE: Wetland delineation was performed by AKRF on October 9 and 10, 2024.
Streams data from December 19, 2023 delineation as shown
*Boundary lines are hatched towards the interior of the delineated wetland.

Legend

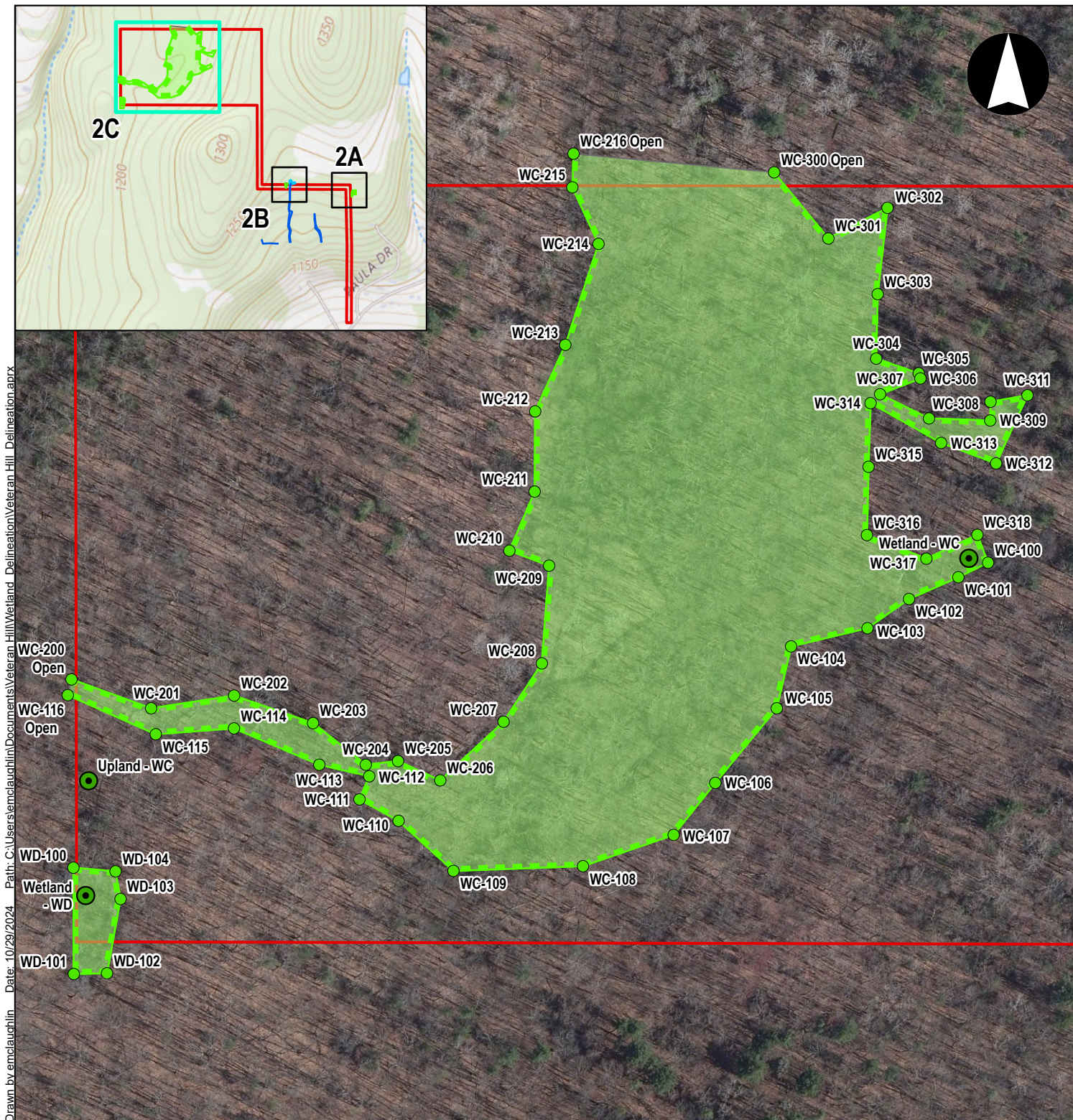
- Study Area
- Wetland Data Point
- Wetland Flags
- Wetland Boundary
- Delineated Wetland

- ▲ Stream Flags (12/19/2023)
- Delineated Stream (12/19/2023)
- ▲ Stream Flags (10/9/2024)
- Delineated Stream (10/9/2024)

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Town of Veteran
Chemung County, NY

0 25 50
Feet
1 inch equals 50 feet

Attachment A, Figure 2B
Delineated Wetlands Details Map
October 2024



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Data source: Aerial imagery is for 2021, obtained from <https://gis.ny.gov/orthoimagery>
NOTE: Wetland delineation was performed by AKRF on October 9 and 10, 2024.

Streams data from December 19, 2023 delineation as shown

*Boundary lines are hatched towards the interior of the delineated wetland.

Legend

- Study Area
- Wetland Data Point
- Wetland Flags
- Wetland Boundary
- Delineated Wetland

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Town of Veteran
Chemung County, NY

0 100 200
Feet
1 inch equals 200 feet

Attachment A, Figure 2C
Delineated Wetlands Details Map

October 2024

ATTACHMENT B
Representative Site Photographs



Photo 1. Photo facing north from Veteran Hill Road depicting the location of the proposed site access/project interconnection route.



Photo 2. Photo facing south depicting the proposed route for site access and project interconnection to Veteran Hill Road (background).

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Town of Veteran, Chemung County, NY**

Attachment B-1 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 3. Photo facing north depicting the location where the proposed route for site access/interconnection enters old growth woodlands. Note the significant slopes present at this location.



Photo 4. Photo facing north depicting the location of the proposed site access/interconnection route within the old growth woodlands. Note the property boundary and adjacent parcel to the east (right), identified by the linear tree line.

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Town of Veteran, Chemung County, NY**

Attachment B-2 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 5. Photo facing northeast depicting wetland WA. This small wetland area is a localized depression and includes species such as fringed sedge (*Carex crinita*, OBL), giant goldenrod (*Solidago gigantea*, FACW), woolgrass (*Scirpus cyperinus*, OBL) and red maple (*Acer rubrum*, FAC)



Photo 6. Photo facing north from the proposed site access/interconnection route depicting the property boundary and adjacent parcel which includes the agricultural field to the north. The proposed site access/interconnection route turns west near this location.

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-3 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 7. Photo facing west from the proposed site access/interconnection depicting typical upland conditions on the site. Uplands on the subject site can be typically characterized by white pine (*Pinus strobus*, UPL), pignut hickory (*Carya glabra*, FACU), American hornbeam (*Carpinus caroliniana*, FAC) and eastern cottonwood (*Populus deltoides*, FAC).



Photo 8. Photo facing south depicting the delineated ephemeral stream S2. This ephemeral stream is located adjacent to the southwest corner of the agricultural field by which it receives hydrologic input. This stream flows southwardly and bisects the proposed access/interconnection route.

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-4 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 9. Photo facing north depicting wetland WB. This wetland area is a localized depression located to the east of stream S2, and is characterized by species such as sensitive fern (*Onoclea sensibilis*, FACW), New York fern (*Parathelypteris noveboracensis*, FAC) and shallow sedge (*Carex lurida*, OBL).



Photo 10. Photo facing north depicting the location where proposed site access/interconnection route turns north and typical uplands on the site.

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-5 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 11. Photo facing northwest from the southeast corner of the study area depicting the planned location for the solar farm.



Photo 12. Photo facing west from the eastern/central portion of the study area depicting the planned location for the solar farm.

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-6 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 13. Photo facing west depicting wetland WC. This area of wetland WC contains a drainage corridor located on the hillside which drains into the larger WC wetland complex. This area of the site contains a high bedrock layer, at around 16 inches below the surface, which influences the hydrology and drainage patterns on the site.



Photo 14. Photo facing west depicting a second hillside drainage corridor of wetland WC with characteristics similar to that of the drainage corridor depicted in photo 13. These areas of wetland WC are dominated by species including cinnamon fern (*Osmundastrum cinnamomeum*, FACW) and fowl manna grass (*Glyceria striata*, OBL).



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Town of Veteran, Chemung County, NY**

Attachment B-7 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 15. Photo facing west depicting a third hillside drainage corridor of wetland WC. This feature is more distinctly channelized than the drainage corridors depicting in photos 13 and 14.



Photo 16. Photo facing southwest from the northern/central portion of the study area depicting the larger WC wetland complex from its eastern boundary. This wetland receives hydrologic input from the hillside located to the west and ultimately drains to the east where the slopes increase. This wetland contains little topography and is a generally flat area situated between areas of higher slopes.

akrf

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-8 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 17. Photo facing northeast depicting wetland WC from is western boundary.



Photo 18. Photo facing north near the northwestern corner of the study area depicting typical uplands located to the west of the WC wetland complex.

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Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-9 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024



Photo 19. Photo facing west near the western limits of the study area depicting where topography increases and wetland WC becomes more channelized and drains to the west.



Photo 20. Photo facing south from the southwestern portion of the study area depicting the delineated isolated wetland WD. This wetland is a localized depression and is characterized by species including red maple (*Acer rubrum*, FAC), slippery elm (*Ulmus rubra*, FAC) and shallow sedge (*Carex lurida*, OBL).

akrf

**Dynamic Energy LLC
Veteran Hill Solar Project
Town of Veteran, Chemung County, NY**

Attachment B-10 - Study Area Photographs

Photo Source: AKRF, Inc. October 9th and 10th, 2024

ATTACHMENT C

USACE Wetland Determination Data Forms (ENG 6116-8)

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/9/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: WET WA
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Concave Slope %:
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.205184 Long: -76.790562 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, 8 to 15 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: WET WA

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Acer rubrum</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%;">Multiply by:</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>50</u></td> <td>x 1 =</td> <td><u>50</u></td> </tr> <tr> <td>FACW species</td> <td><u>25</u></td> <td>x 2 =</td> <td><u>50</u></td> </tr> <tr> <td>FAC species</td> <td><u>5</u></td> <td>x 3 =</td> <td><u>15</u></td> </tr> <tr> <td>FACU species</td> <td><u>10</u></td> <td>x 4 =</td> <td><u>40</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>90</u></td> <td>(A)</td> <td><u>155</u> (B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>1.72</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:		OBL species	<u>50</u>	x 1 =	<u>50</u>	FACW species	<u>25</u>	x 2 =	<u>50</u>	FAC species	<u>5</u>	x 3 =	<u>15</u>	FACU species	<u>10</u>	x 4 =	<u>40</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>90</u>	(A)	<u>155</u> (B)	Prevalence Index = B/A = <u>1.72</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>50</u>	x 1 =	<u>50</u>																																	
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Column Totals:	<u>90</u>	(A)	<u>155</u> (B)																																	
Prevalence Index = B/A = <u>1.72</u>																																				
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	<u>5</u>	<u>=Total Cover</u>																																		
Sapling/Shrub Stratum (Plot size: <u>15</u>)																																				
1. <u>Quercus alba</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	<u>5</u>	<u>=Total Cover</u>																																		
Herb Stratum (Plot size: <u>5</u>)																																				
1. <u>Carex crinita</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																
2. <u>Scirpus cyperinus</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																																	
3. <u>Solidago gigantea</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																																	
4. <u>Solidago canadensis</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																																	
5. <u>Rubus hispidus</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
	<u>80</u>	<u>=Total Cover</u>																																		
Woody Vine Stratum (Plot size: <u>15</u>)																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
	_____	<u>=Total Cover</u>																																		

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

SOIL

Sampling Point	WET WA
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/9/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: UPL WA
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): _____ Slope %: _____
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.205231 Long: -76.790851 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, 8 to 15 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are “Normal Circumstances” present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
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Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL WA

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>13</u></td> <td>x 4 = <u>52</u></td> </tr> <tr> <td>UPL species <u>35</u></td> <td>x 5 = <u>175</u></td> </tr> <tr> <td>Column Totals: <u>53</u> (A)</td> <td><u>242</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.57</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>13</u>	x 4 = <u>52</u>	UPL species <u>35</u>	x 5 = <u>175</u>	Column Totals: <u>53</u> (A)	<u>242</u> (B)	Prevalence Index = B/A = <u>4.57</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
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FACU species <u>13</u>	x 4 = <u>52</u>																			
UPL species <u>35</u>	x 5 = <u>175</u>																			
Column Totals: <u>53</u> (A)	<u>242</u> (B)																			
Prevalence Index = B/A = <u>4.57</u>																				
2. <u>Carya glabra</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Pinus strobus</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>15</u> =Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Diervilla lonicera</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>10</u> =Total Cover																		
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Fraxinus americana</u>	<u>2</u>	<u>No</u>	<u>FACU</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. <u>Carya glabra</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Diervilla lonicera</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>																	
4. <u>Carex pensylvanica</u>	<u>5</u>	<u>No</u>	<u>UPL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		<u>28</u> =Total Cover																		
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		_____ =Total Cover																		

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

SOIL

Sampling Point	UPL WA
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/9/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: WET WB
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Concave Slope %:
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.205387 Long: -76.793172 Datum: WGS1983
Soil Map Unit Name: Arkport fine sandy loam, 3 to 8 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: WET WB

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>95</u></td> <td>x 3 = <u>285</u></td> </tr> <tr> <td>FACU species <u>7</u></td> <td>x 4 = <u>28</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>122</u> (A)</td> <td><u>348</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.85</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>15</u>	x 2 = <u>30</u>	FAC species <u>95</u>	x 3 = <u>285</u>	FACU species <u>7</u>	x 4 = <u>28</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>122</u> (A)	<u>348</u> (B)	Prevalence Index = B/A = <u>2.85</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>15</u>	x 2 = <u>30</u>																			
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Column Totals: <u>122</u> (A)	<u>348</u> (B)																			
Prevalence Index = B/A = <u>2.85</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Acer rubrum</u>	<u>80</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Onoclea sensibilis</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Parathelypteris noveboracensis</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Solidago canadensis</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Rubus flagellaris</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
5. <u>Carex lurida</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

SOIL

Sampling Point	WET WB
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	5Y 4/2	80	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations
3-8	5Y 4/2	50	10YR 5/6	35	C	M	Loamy/Clayey	Prominent redox concentrations
			2.5Y 6/1	15	D	M		
8-10	2.5Y 6/1	70	10YR 5/6	15	C	M	Loamy/Clayey	Prominent redox concentrations
			2.5Y 7/6	5	C	M		Prominent redox concentrations
			10YR 4/2	10	C	M		Distinct redox concentrations
10-19	2.5Y 6/1	60	10YR 6/8	40	C	M	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.				² Location: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils³:					
☐ Histosol (A1)			☐ Dark Surface (S7)			☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)		
☐ Histic Epipedon (A2)			☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Black Histic (A3)						☐ Polyvalue Below Surface (S8) (LRR K, L)		
☐ Hydrogen Sulfide (A4)			☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)			☐ Thin Dark Surface (S9) (LRR K, L)		
☐ Stratified Layers (A5)			☐ High Chroma Sands (S11) (LRR K, L)			☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
☐ Depleted Below Dark Surface (A11)			☐ Loamy Mucky Mineral (F1) (LRR K, L)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Thick Dark Surface (A12)			☐ Loamy Gleyed Matrix (F2)			☐ Red Parent Material (F21) (outside MLRA 145)		
☐ Mesic Spodic (A17) (MLRA 144A, 145, 149B)			☒ Depleted Matrix (F3)			☐ Very Shallow Dark Surface (F22)		
☐ Sandy Mucky Mineral (S1)			☐ Redox Dark Surface (F6)			☐		
☐ Sandy Gleyed Matrix (S4)			☐ Depleted Dark Surface (F7)					
☐ Sandy Redox (S5)			☐ Redox Depressions (F8)					
☐ Stripped Matrix (S6)			☐ Marl (F10) (LRR K, L)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
☐ Red Parent Material (F21) (MLRA 145)								
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes ☒ No ☐		
Remarks: 								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/10/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: WET WC
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Concave Slope %:
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.208907 Long: -76.796144 Datum: WGS1983
Soil Map Unit Name: Volusia channery silt loam, 8 to 15 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are “Normal Circumstances” present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: WET WC

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Carya ovata</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Quercus palustris</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>55</u>		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>85</u></td> <td>x 1 = <u>85</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>17</u></td> <td>x 4 = <u>68</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>247</u></td> <td>(A) <u>543</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.20</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>85</u>	x 1 = <u>85</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>100</u>	x 3 = <u>300</u>	FACU species <u>17</u>	x 4 = <u>68</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>247</u>	(A) <u>543</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>85</u>	x 1 = <u>85</u>																			
FACW species <u>45</u>	x 2 = <u>90</u>																			
FAC species <u>100</u>	x 3 = <u>300</u>																			
FACU species <u>17</u>	x 4 = <u>68</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>247</u>	(A) <u>543</u> (B)																			
Prevalence Index = B/A = <u>2.20</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Carpinus caroliniana</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Acer rubrum</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Hamamelis virginiana</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>65</u>		=Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Osmundastrum cinnamomeum</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Parathelypteris noveboracensis</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Polystichum acrostichoides</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Carex crinita</u>	<u>15</u>	<u>No</u>	<u>OBL</u>																	
5. <u>Glyceria striata</u>	<u>70</u>	<u>Yes</u>	<u>OBL</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>127</u>		=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____		=Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____																

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

SOIL

Sampling Point	WET WC
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/10/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: UPL WC
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): _____ Slope %: _____
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.208256 Long: -76.799701 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, 8 to 15 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are “Normal Circumstances” present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
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Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL WC

Tree Stratum (Plot size: 30)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Acer rubrum</i>	20	No	FAC
2.	<i>Carya ovata</i>	30	Yes	FACU
3.	<i>Quercus alba</i>	30	Yes	FACU
4.	<i>Ulmus rubra</i>	15	No	FAC
5.	<i>Carpinus caroliniana</i>	20	No	FAC
6.				
7.				
		115	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
			=Total Cover	
Herb Stratum (Plot size: 5)				
1.	<i>Carex pensylvanica</i>	15	Yes	UPL
2.	<i>Parathelypteris noveboracensis</i>	10	Yes	FAC
3.	<i>Carya ovata</i>	10	Yes	FACU
4.	<i>Fraxinus americana</i>	2	No	FACU
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		37	=Total Cover	
Woody Vine Stratum (Plot size: 15)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 65	x 3 = 195
FACU species 72	x 4 = 288
UPL species 15	x 5 = 75
Column Totals: 152 (A)	558 (B)
Prevalence Index = B/A = 3.67	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

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

SOIL

Sampling Point	UPL WC
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Veteran Hill Solar Project City/County: Chemung County Sampling Date: 10/10/2024
Applicant/Owner: Dynamic Energy LLC State: NY Sampling Point: WET WD
Investigator(s): Edward McLaughlin, Kevin Tomlinson Section, Township, Range: Town of Veteran
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %:
Subregion (LRR or MLRA): LRR K, MLRA 94A Lat: 42.207918 Long: -76.799712 Datum: WGS1983
Soil Map Unit Name: Lansing silt loam, 8 to 15 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: WET WD

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>50</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)																
2. <u>Ulmus rubra</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Carya ovata</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>75</u>	=Total Cover	Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>130</u></td> <td>x 3 = <u>390</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>175</u> (A)</td> <td><u>495</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.83</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>25</u>	x 1 = <u>25</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>130</u>	x 3 = <u>390</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>175</u> (A)	<u>495</u> (B)	Prevalence Index = B/A = <u>2.83</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>25</u>	x 1 = <u>25</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>130</u>	x 3 = <u>390</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>175</u> (A)	<u>495</u> (B)																			
Prevalence Index = B/A = <u>2.83</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Ulmus rubra</u>	<u>35</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Acer rubrum</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>55</u>	=Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Carex lurida</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Rubus flagellaris</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Parathelypteris noveboracensis</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Carex crinita</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		<u>45</u>	=Total Cover																	
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		_____	=Total Cover																	

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

SOIL

Sampling Point	WET	WD
----------------	-----	----

[illegible]



Environmental, Planning, and Engineering Consultants

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Memorandum

To: Jason Funk, Dynamic Energy LLC
From: Elizabeth Weatherby, Senior Technical Director; Kevin Tomlinson, Environmental Scientist
Date: January 17, 2023
Re: Veteran Hill Solar Project Wetland Delineation Memo
cc: Kevin Maher (AKRF)

INTRODUCTION

Dynamic Energy LLC (Dynamic Energy), is proposing the development of a solar farm project (“Veteran Hill Solar Project” or “proposed project”), located in the Town of Veteran, Chemung County, New York (study area) (see **Figure 1** and **Figure 2**). The purpose of the proposed project is to develop an approximately 5 MW ground-mounted solar farm on approximately 16-acres of a larger approximately 126-acre parcel located off Veteran Hill Road (County Road [CR] 47).

AKRF delineated three (3) streams within the approximate 28-acre project development site study area on December 19, 2023 following a period of substantial rain outside of the growing season. This memorandum presents the results from the wetland delineation.

METHODOLOGY

Prior to the wetland delineation, AKRF reviewed maps from the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (see **Figure 3**) and the New York State Department of Environmental Conservation (NYSDEC) (see **Figure 4**) for NWI-mapped and NYSDEC-mapped wetlands and priority waterbodies, respectively, within the study area. AKRF also reviewed the Natural Resources Conservation Service (NRCS) soils maps (see **Figure 5**) for soil types within the study area, with respect to soil series identified as hydric.

AKRF wetland scientists conducted the wetland delineation within the study area of the proposed project on December 19, 2023, using the U.S. Army Corps of Engineers (USACE) three parameter wetland delineation methodology¹ as described below for the three wetland indicators of hydrology, hydric soils

¹ Environmental Laboratory. 1987. “Corps of Engineers Wetlands Delineation Manual,” Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region

and hydrophytic vegetation. The USACE *Wetland Determination Data Form – Northcentral and Northeast Region* (2012) was used to document the wetlands observed in the study area and photographs of the delineated wetlands are shown in **Attachment B**.

HYDROLOGY AND SOILS

AKRF characterized the hydrology within the study area using aerial photographs, site observations, and soil samples. An auger was used to collect the samples to determine soil saturation and/or a high-water table. The soil samples were characterized using the Munsell Soil Color Chart. During the wetland delineation, hydrology and soils observations were made during a period of dry weather.

VEGETATION

AKRF used the USACE *Northcentral and Northeast 2020 Regional Wetland Plant List* to determine the wetland/upland status² of the plant species identified within the study area. Percent cover was documented in the tree, woody vine, sapling/shrub, and herb strata. A 30-foot radius plot was established to document plant species percent cover in the tree and woody vine strata. Within this 30-foot plot, a 15-foot radius plot was established for the measurement of percent cover of shrubs and saplings. For species in the herb stratum, a 5-foot radius plot was established within the 30-foot radius plot. Vegetation data was collected outside of the growing season. Species identification was therefore based on limited characteristics and some herbaceous plants may not have been observed due to their seasonality.

WETLANDS, SURFACE WATERS MAPS, AND SOILS

NATIONAL WETLANDS INVENTORY-MAPPED WETLANDS

The NWI mapping showed there were no NWI-mapped wetlands within the study area. South of the study area, roughly 2,000 feet, there is an NWI-mapped freshwater emergent wetland (PEM1E) with an associated freshwater pond (PUBHx) (see **Figure 3**). Additionally, NWI-mapped riverine (R4SBC) and ponds (PUBHh) were mapped to the east and west of the study area. These NWI-mapped riverine wetlands are also mapped as an NYSDEC Class C Priority Waterbody as described below.

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED WETLANDS

NYSDEC wetland maps did not identify any wetlands within or in proximity to the study area (see **Figure 4**).

NEW YORK STATE DEPARTMENT OF CONSERVATION-MAPPED PRIORITY WATERBODIES

The NYSDEC Priority Waterbodies mapping did not identify any mapped resources within the study area. However, two NYSDEC Class C Priority Waterbody³, Catherine Creek and tributaries (water index number: Ont 66-12-P369-59[upper])⁴ to the west, and North Branch Newtown Creek and tributaries (water

(version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

² Wetland/upland statuses for plant species include Obligate (OBL; occurring in wetlands greater than or equal to 99 percent of the time), Facultative Wetland (FACW; occurring in wetlands between 67 and 99 percent of the time), Facultative (FAC; occurring in wetlands between 34 and 66 percent of the time), Facultative Upland (FACU; occurring in wetlands between 1 and 33 percent of the time), and Upland (UPL; occurring in wetlands less than or equal to 1 percent of the time). Dominant species indicative of wetlands include species rated as OBL, FACW, and FAC.

³ Per 6 CRR-NY 701.8, “The best usage of Class C waters is fishing. These waters shall be suitable for fish, shellfish and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.”

⁴ <https://extapps.dec.ny.gov/data/WQP/PWL/0705-0011.pdf>

index number: Pa 3-28-13)⁵ to the east of the study area (see **Figure 4**). The site is within the Chemung River Watershed.

NATURAL RESOURCES CONSERVATION SERVICE -MAPPED SOILS

NRCS-mapped soils within the study area (see **Figure 5**) are categorized into 5 different soil map units. The soil map units and their hydric rating (i.e., whether NRCS identifies the soil map unit as hydric) are summarized in **Table 1** below.

Table 1.
Natural Resource Conservation Service – Mapped Soils in the Study Area

Soil Map Unit Symbol	Soil Map Unit Name	Hydric Rating	Percent Cover
ArB	Arkport fine sandy loam, 3 to 8 percent slopes	Nonhydric	8.0%
LnB	Lima silt loam, 3 to 8 percent slopes	Predominantly nonhydric	45.7%
LnC	Lansing silt loam, 8 to 15 percent slopes	Nonhydric	34.1%
LnD	Lansing silt loam, 15 to 25 percent slopes	Nonhydric	4.7%
VoC	Volusia channery silt loam, 8 to 15 percent slopes	Predominantly nonhydric	7.6%

WETLAND DELINEATION

AKRF wetland scientists performed a site review on December 19th, 2023, which resulted in the delineation of three (3) streams (Stream 1, Stream 2, and Stream 3), within the study area (see **Figure 6**). The study area is an upland forest best classified as a rich mesophytic forest (Edinger, 2014) with Eastern white pine (*Pinus strobus*), Northern red oak (*Quercus rubra*), and sugar maple (*Acer saccharum*) dominant to varying degrees throughout steep predominantly south facing upper slopes. Weather conditions during the site review were generally 28°F to 32°F with a light snow flurry in the morning. Soils were not frozen and vegetation had senesced. The area received substantial rainfall in the days prior to conducting the delineation. The nearest downstream USGS stream gauge to the project area, Chemung River at Chemung, NY (01531000)⁶ saw the stream level rise from 4.3 feet on December 17th to an annual record maximum of 9.8 feet by 9:00 PM on December 18th. **Attachment A, Figure 1** provide a detail of the delineated boundaries for each stream.

SURFACE WATERS

STREAM 1

Stream 1 is an ephemeral stream that flows from north to south from a hillside seep (see **Figure 6** and **Attachment A, Figure 1**). A defined rocky-bottomed drainage channel is visible with a width of one to three feet. The stream continues south outside of the study area.

STREAM 2

Stream 2 is a perennial stream that flows from north to south through the center of the study area. The upper reaches of Stream 2 are on a more gradual slope with well-defined banks. As the stream continues south through the site steeper banks develop before cascading downslope and into a culvert outside of the study area. (see **Figure 6** and **Attachment A, Figure 1**).

⁵ <https://extapps.dec.ny.gov/data/WQP/PWL/0501-0035.pdf>

⁶ Sourced from USGS Water Data at <https://waterdata.usgs.gov/monitoring-location/01531000>.

STREAM 3

Stream 3 is an ephemeral stream that flows from west to east before flowing into Stream 2 outside of the study area (see **Figure 6** and **Attachment A, Figure 1**).

PRELIMINARY JURISDICTIONAL SUMMARY AND CONCLUSION

Three (3) streams (Stream 1, Stream 2, and Stream 3) were delineated in the study area. Stream 1 and Stream 3 (ephemeral streams) are not connected through Relatively Permanent Waters (RPW) to Waters of the United States and are not likely to be regulated. Stream 2 is a perennial stream that drains offsite to North Branch Newtown Creek and tributaries through several culverted connections. As this off-site connection to Traditional Navigable Waterway (TNW)⁷ was not verifiable with information and resources available, a Joint Jurisdictional Determination is recommended to confirm USACE jurisdiction of Stream 2 as Waters of the United States under Sections 401/404 of the Clean Water Act (CWA)⁸ and the need for a Water Quality Certification (WQC) from NYSDEC. Stream 2 is an unmapped tributary to a NYSDEC Class C Priority Stream but it is unlikely to be regulated by the NYSDEC under the Protection of Waters Act (Article 15 of ECL).

Figures:

Figure 1 – Aerial Map

Figure 2 – USGS Topographic Map

Figure 3 – NWI Wetlands

Figure 4 – NYSDEC Wetlands and Priority Waterbodies

Figure 5 – NRCS Soils

Figure 6 – Delineated Streams Overview

Attachments:

Attachment A – Delineated Streams Drawings

Figure 1 – Delineated Streams Details Map

Attachment B – Study Area Photographs

⁷ Traditional Navigable Waters are “...those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce” (33 CFR Part 329). Available: <https://www.nap.usace.army.mil/Portals/39/docs/regulatory/regs/33cfr329.pdf> (accessed on November 27, 2023).

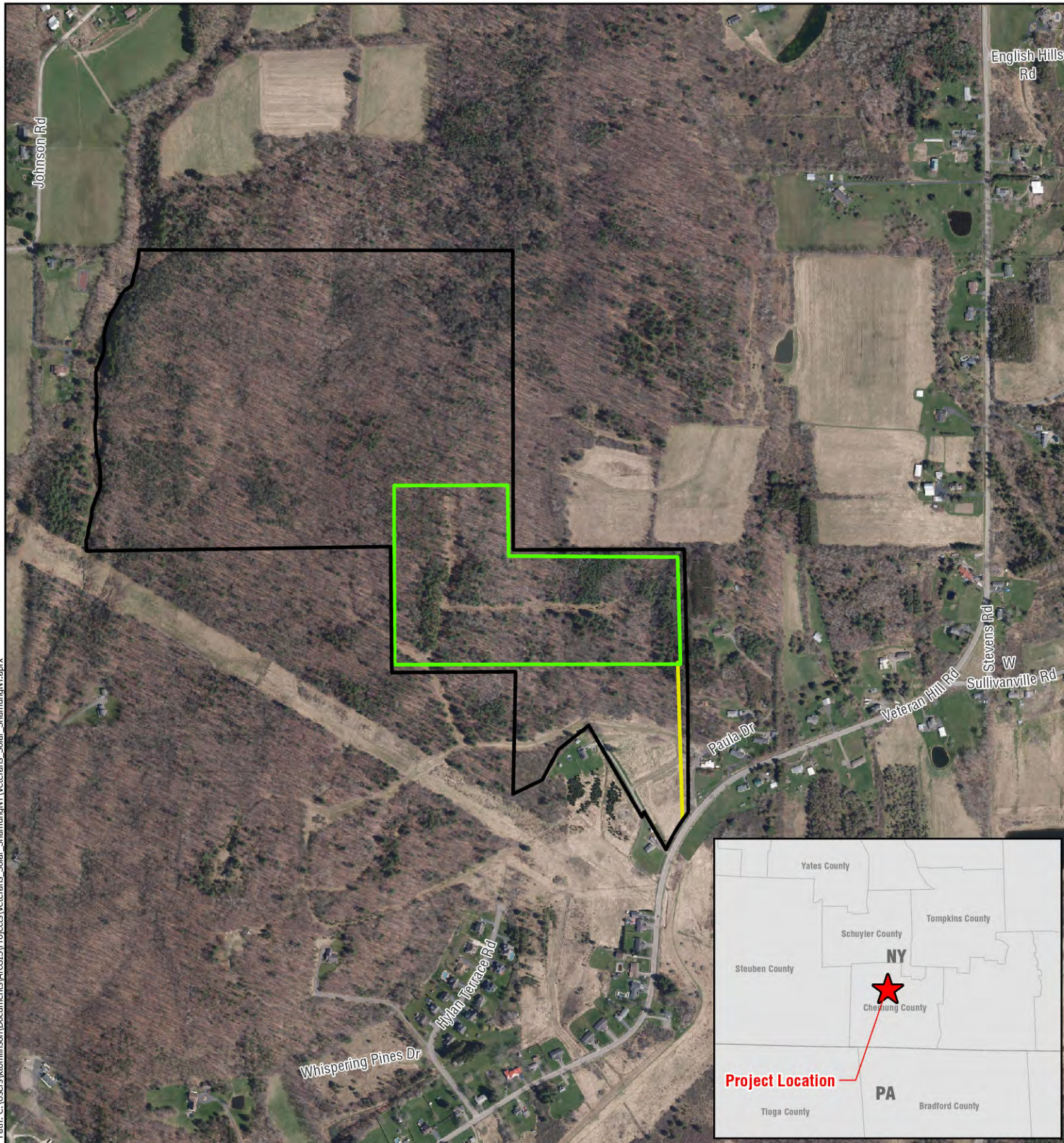
⁸ NYSDEC would be responsible for administering the Section 401 Water Quality Certificate (WQC).

REFERENCES

Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY

Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss; U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Path: C:\Users\kblinson\Documents\ArcGIS\Projects\Veterans Solar_ShamungNY.aprx



0 500 1,000
Feet
1 inch equals 1,000 feet



Legend

- Property Parcel
- Study Area
- POI and Access Road

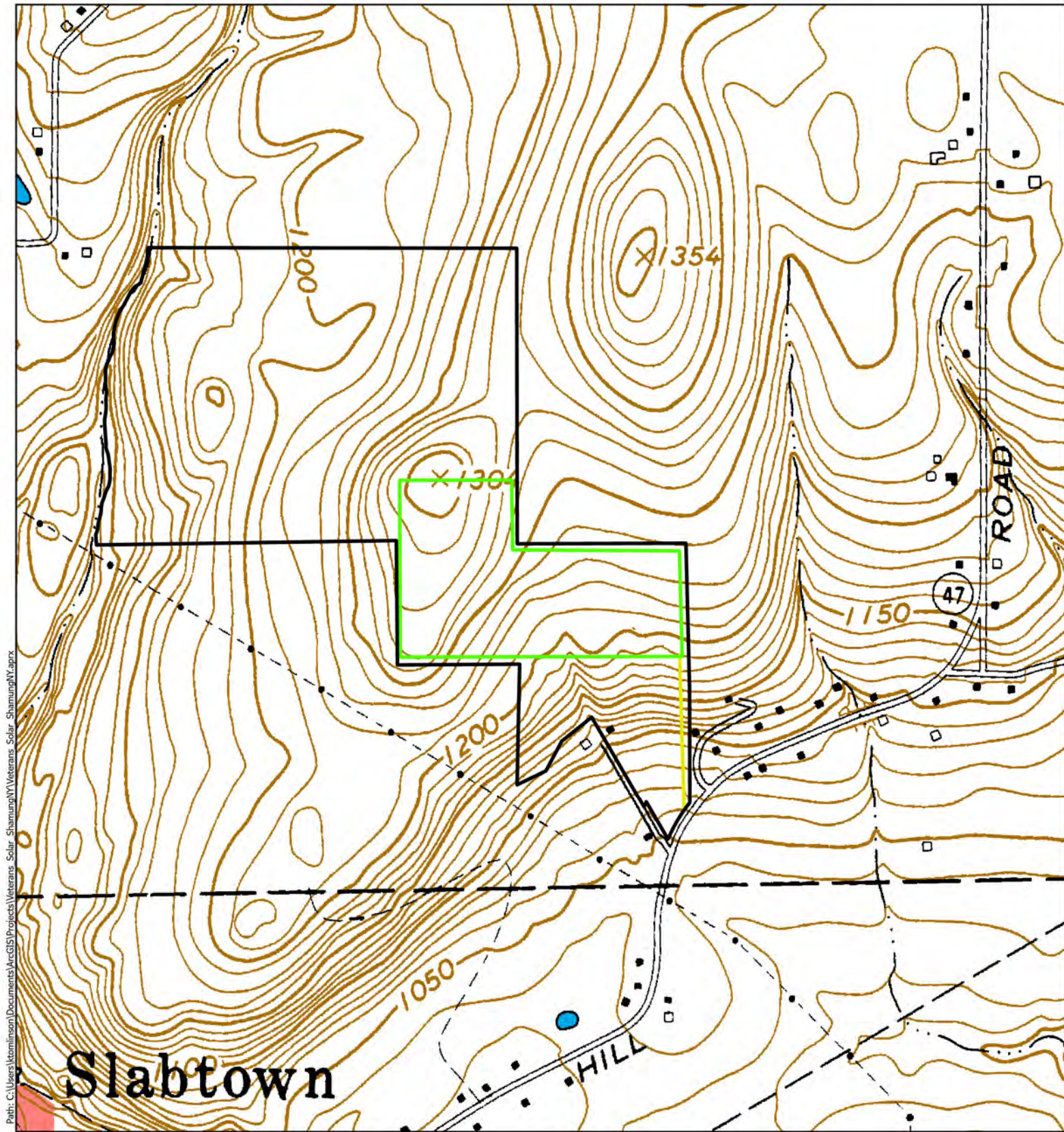
Data source: Aerial imagery sourced from 2021 NYS Orthoimagry Program Office at <https://ortho.dhss.ny.gov/>.

Aerial Overview Map

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 1

JANUARY 2024



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0 500 1,000
Feet
1 inch equals 1,000 feet



Legend

- Property Parcel
- Study Area
- POI and Access Road

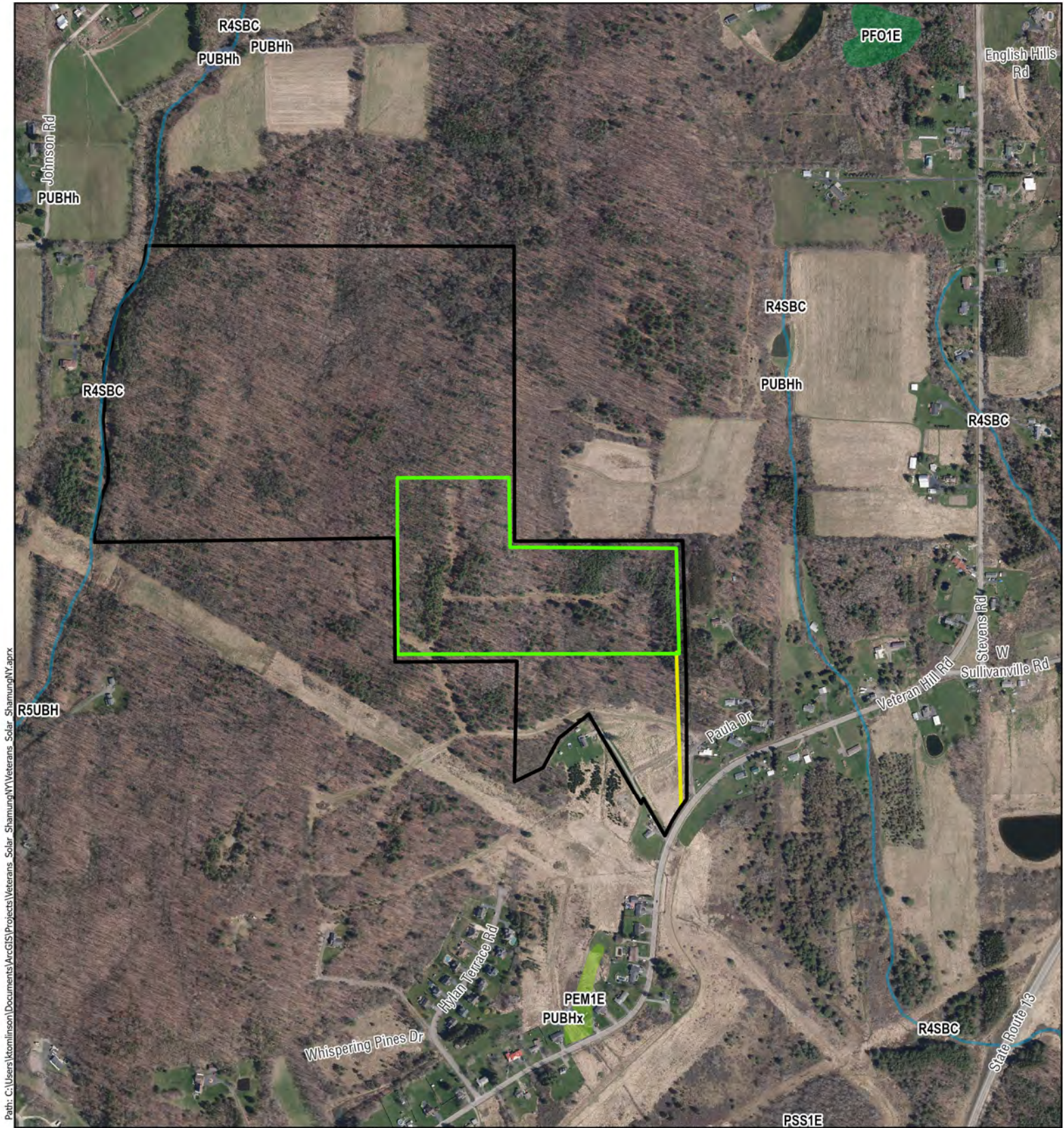
USGS Topographic Map

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 2

JANUARY 2024

Data source: data.gis.ny.gov 24K Quad Map for Horseheads (W24) last updated March 2023.



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0 500 1,000
Feet
1 inch equals 1,000 feet

Data source: USFWS NWI Mapper last updated October 2023.



Legend

- | | |
|-----------------------------|------------------------|
| Property Parcel | Freshwater |
| Study Area | Forested/Shrub Wetland |
| POI and Access Road | Freshwater Pond |
| Freshwater Emergent Wetland | Riverine |

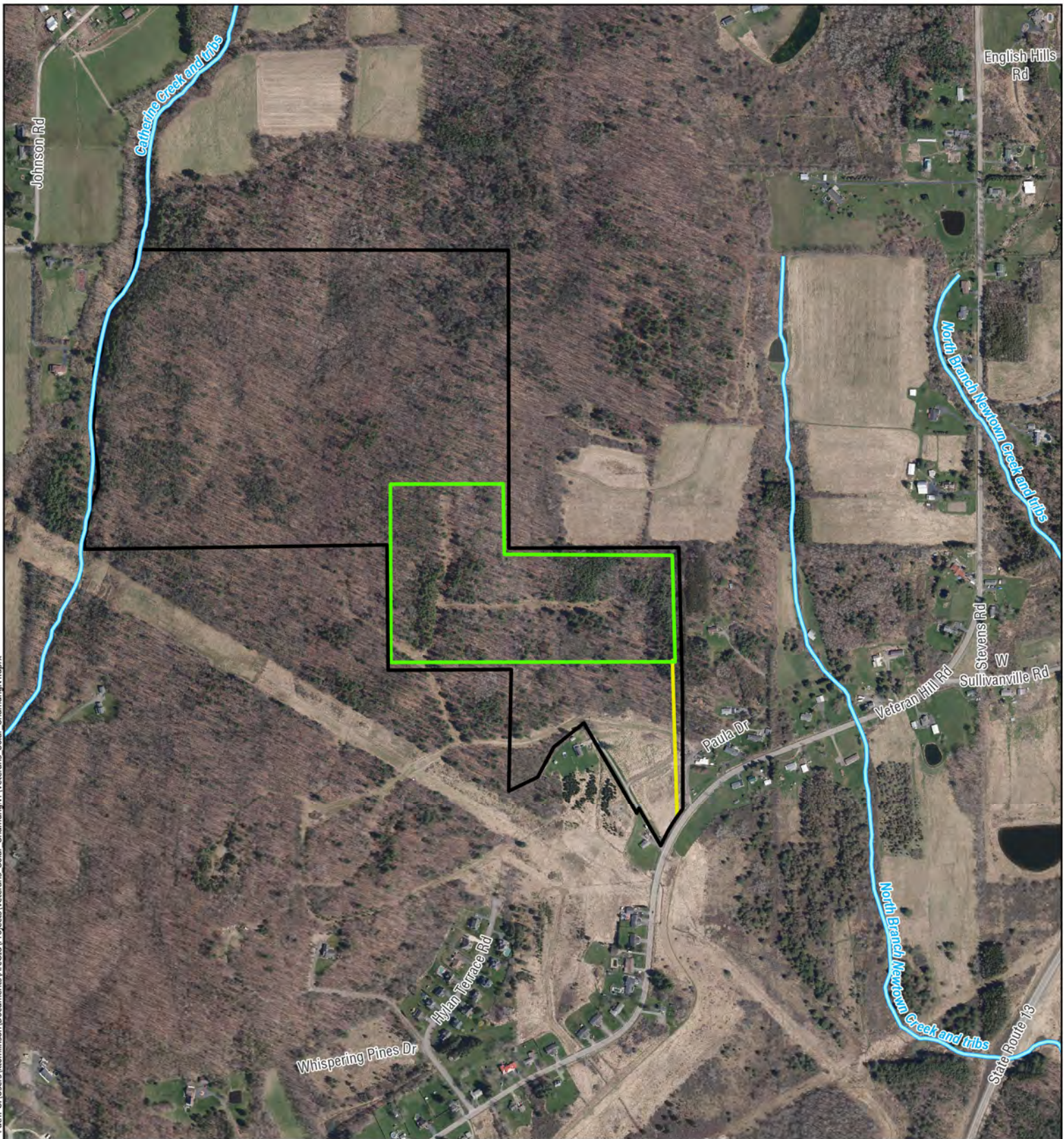
NWI Wetlands

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 3

JANUARY 2024

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0 500 1,000
Feet
1 inch equals 1,000 feet



Legend

- Property Parcel
- Study Area
- POI and Access Road
- NYSDEC Priority Stream

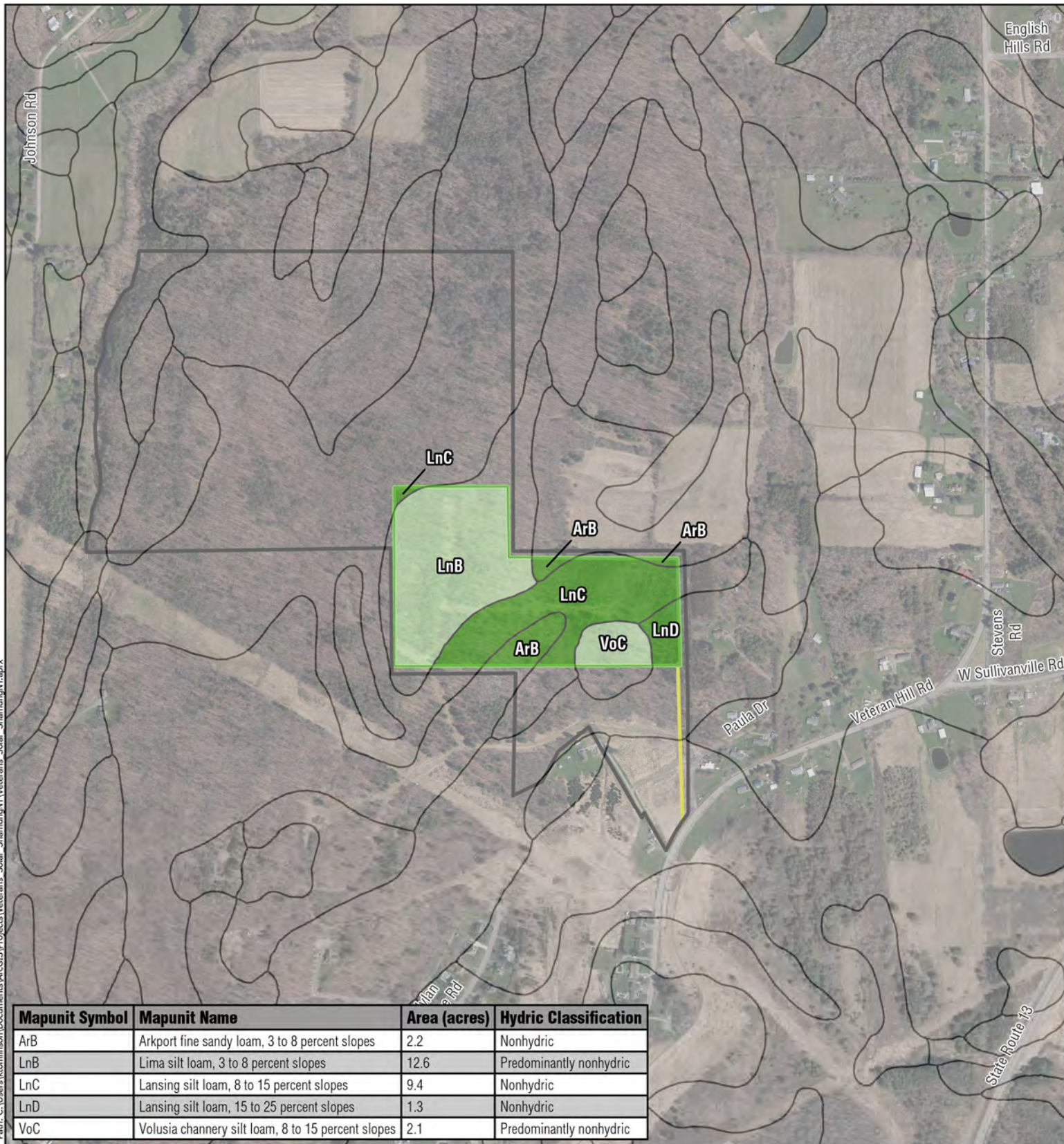
NYSDEC Wetlands and Priority Waterbodies

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Note: There are no NYSDEC mapped wetlands in the vicinity of the project area. Data source: <https://data.gis.ny.gov/> published by NYSDEC. Mapped wetlands last updated September 2022 and Priority Waterbodies last updated November 2023.

Figure 4

JANUARY 2024



Mapunit Symbol	Mapunit Name	Area (acres)	Hydric Classification
ArB	Arkport fine sandy loam, 3 to 8 percent slopes	2.2	Nonhydic
LnB	Lima silt loam, 3 to 8 percent slopes	12.6	Predominantly nonhydic
LnC	Lansing silt loam, 8 to 15 percent slopes	9.4	Nonhydic
LnD	Lansing silt loam, 15 to 25 percent slopes	1.3	Nonhydic
VoC	Volusia channery silt loam, 8 to 15 percent slopes	2.1	Predominantly nonhydic



0 500 1,000
Feet
1 inch equals 1,000 feet



Legend

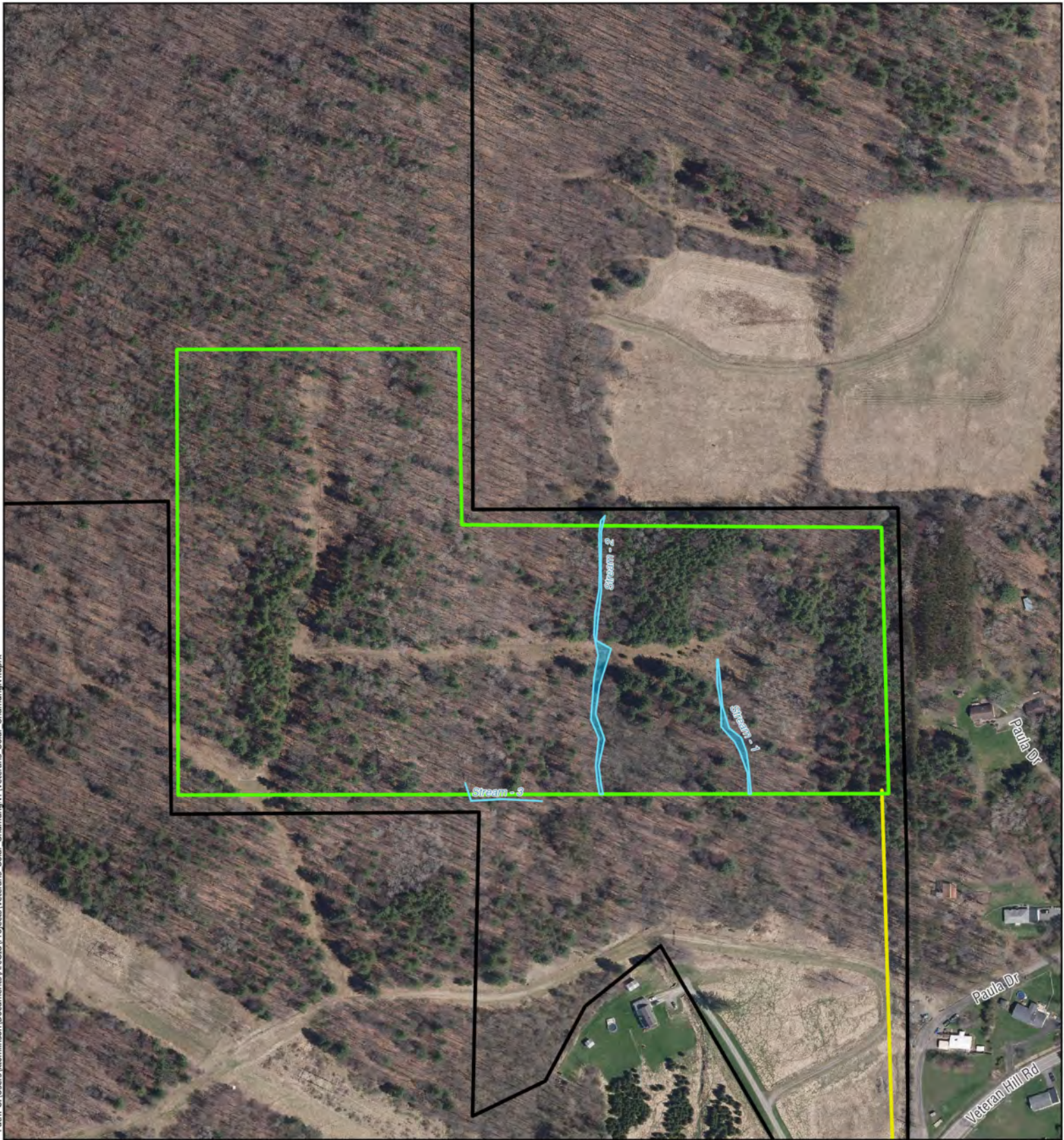
- Property Parcel
- Study Area
- POI and Access Road
- Nonhydic
- Predominantly nonhydic
- NRCS Soil Boundaries

NRCS Soils

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 5

JANUARY 2024



0 250 500
Feet

1 inch equals 400 feet

NOTE: Wetland delineation was conducted by AKRF
on December 19th, 2023.



Legend

-  Property Parcel
-  Study Area
-  POI and Access Road
-  Delineated Stream

Delineated Streams Overview

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 6

JANUARY 2024

ATTACHMENT A

Delineated Wetlands Drawings

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N



0100200

Feet

1 inch equals 120 feet

NOTE: Wetland delineation was conducted by AKRF on December 19th, 2023.

Legend

 Study Area

 Delineated Stream Boundary

 Stream Flag

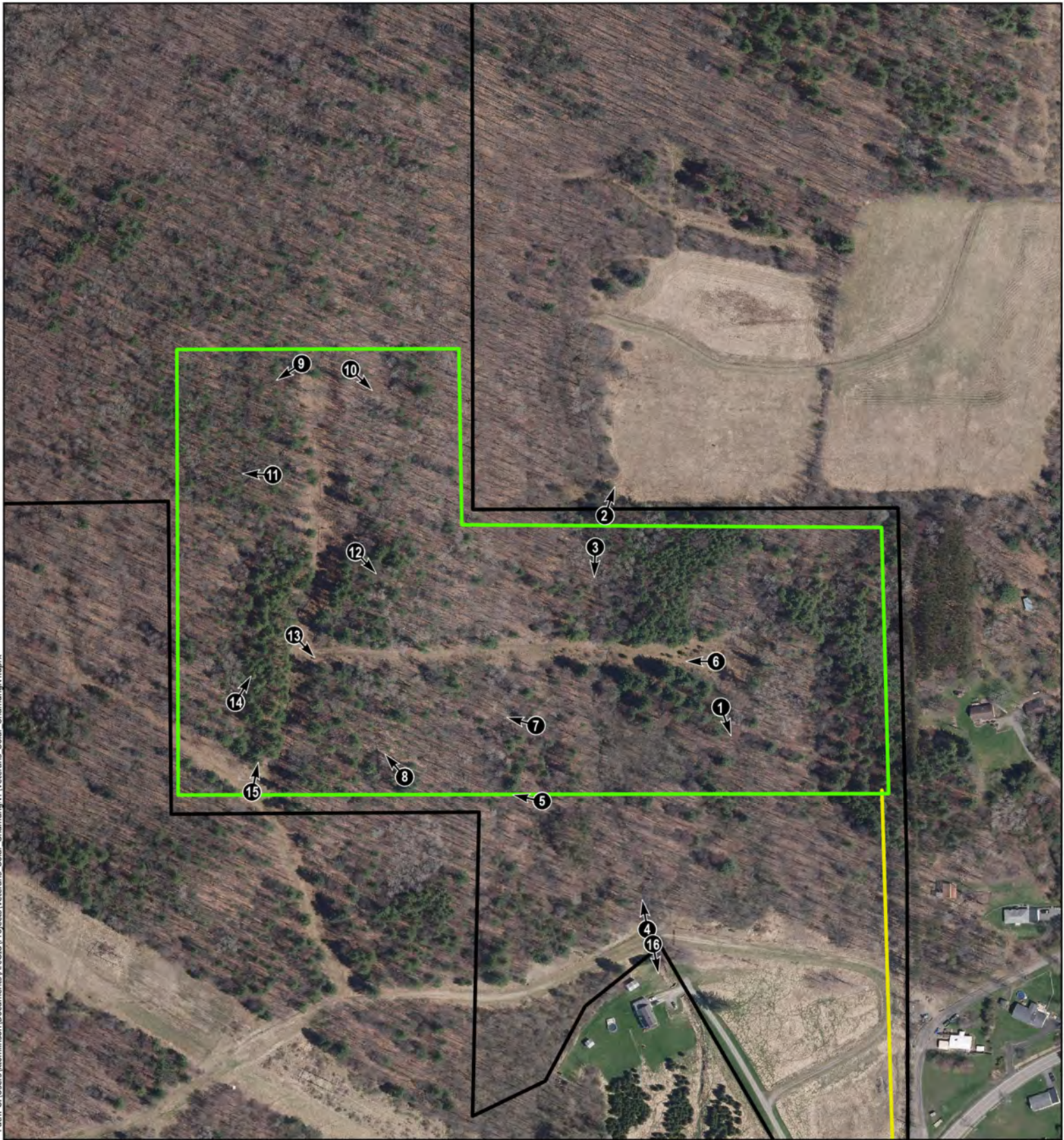
Delineated Streams Details Map

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 1

JANUARY 2024

ATTACHMENT B
Representative Site Photographs



0 250 500
Feet

1 inch equals 400 feet

NOTE: Photographs were taken by AKRF on
December 19th, 2023.



Legend

-  Property Parcel
-  Study Area
-  POI and Access Road
-  Photo Location and Direction

Photograph Locations

Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, NY

Figure 1

JANUARY 2024



Photo 01. Photo from Flag S1-205 showing Stream 1, an ephemeral stream, facing south.



Photo 02. Photo from Flag S2-111 Open Start at the northern property edge facing upstream on Stream 2, a perennial stream, facing north.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-1 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 05. Photo from Flag S3-103 showing Stream 3, an intermittent channel that drains to Stream 2 offsite, facing west.



Photo 04. Photo showing the steep outfall of Stream 2 through a culvert outside of the delineation area, facing north.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-2 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 03. Photo showing the defined banks of Stream 2 through the forest as it flows south through the property, facing south.



Photo 06. Photo from the access road that runs east-west through the rich mesophytic forest, facing west.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-3 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 07. Photo showing an upland area of younger trees with larger Eastern white pine trees scattered throughout, facing west.



Photo 08. Photo showing an upland area dominated by Eastern white pine trees with a bare understory, facing northwest.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-4 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 09. Photo showing an upland area of mixed pine and hardwoods, including American beech that was not present in the lower portions of the site, facing southwest.



Photo 10. Photo showing an upland area through the rich mesophytic forest, where younger trees and saplings are more abundant, facing southeast.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-5 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 11. Photo showing an upland area through the rich mesophytic forest, where Eastern white pine saplings are more prevalent, facing west.



Photo 12. Photo showing an upland area through the rich mesophytic forest where pines are more dominant, facing southeast.



**Dynamic Energy LLC
Veteran Hill Solar Project
Veteran, Chemung County, New York**

Attachment B-6 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 13. Photo showing the intersection of the north-south and east-west access road, facing southeast.



Photo 14. Photo showing a dense portion of Eastern white pines with the access road barely visible through their trunks in photo center-right, facing northeast.



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Attachment B-7 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023



Photo 15. Photo showing the fork in the access road where the path on the right continues to the north-south access road, photo facing north.



Photo 16. Photo showing the culvert outfall from Stream 2 as it drains under the road, showing the steep slope leading up to the property, facing south.



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Attachment B-8 - Study Area Photographs

Photo Source: AKRF, Inc. December 19th, 2023