

RESOLUTION NO. 2015200

RE: AUTHORIZE ADOPTION OF FULL ENVIRONMENTAL ASSESSMENT FORM AND NEGATIVE DECLARATION IN CONNECTION WITH THE INSTALLATION OF A 2.473 Mw GROUND MOUNTED PHOTOVOLTAIC ARRAY SYSTEM AT THE DUTCHESS COUNTY AIRPORT

Legislators MICCIO, SURMAN, ROLISON, BOLNER, STRAWINSKI, PERKINS, JETER-JACKSON, SAGLIANO, WEISS, and FARLEY offer the following and move its adoption:

WHEREAS, the Dutchess County Department of Public Works is considering installation of a 2.473 Mw ground mounted Photovoltaic Array System (Solar Array System) on a portion of the land located in an open field along the eastern side of Route 376 at the Dutchess County Airport, and

WHEREAS, Dutchess County has identified the involved action as an Unlisted Action and intends to declare itself Lead Agency in the companion resolution of the involved action, and

WHEREAS, the Legislature has reviewed the Full Environmental Assessment Form for the involved action, a copy of which is attached, that was provided by the Department of Public Works and agrees with its conclusion that the involved project will not have a Significant Negative Impact on the Environment based on the criteria provided in 6 NYCRR 617.7(a)-(c), and

WHEREAS, now therefore, be it

RESOLVED, Dutchess County approves and adopts the attached Full Environmental Assessment Form and adopts a negative declaration of environmental significance in connection with the installation of a 2.473 Mw ground mounted Photovoltaic Array System at the Dutchess County Airport in accordance with SEQRA (6 NYCRR 617.7.b), and be it further

RESOLVED, that this negative declaration shall be filed as provided by law.

CA-131-15
CAB/kvh/G-1602
7/16/15 Fiscal Impact: See attached statement

STATE OF NEW YORK
ss:
COUNTY OF DUTCHESS

This is to certify that I, the undersigned Clerk of the Legislature of the County of Dutchess have compared the foregoing resolution with the original resolution now on file in the office of said clerk, and which was adopted by said Legislature on the 10th day of August 2015, and that the same is a true and correct transcript of said original resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of said Legislature this 10th day of August 2015.

CAROLYN MORRIS, CLERK OF THE LEGISLATURE

FISCAL IMPACT STATEMENT

NO FISCAL IMPACT PROJECTED

APPROPRIATION RESOLUTIONS *(To be completed by requesting department)*

Total Current Year Cost \$ _____

Total Current Year Revenue \$ _____
and Source

Source of County Funds *(check one)*: Existing Appropriations, Contingency,
 Transfer of Existing Appropriations, Additional Appropriations, Other *(explain)*.

Identify Line Items(s):

Related Expenses: Amount \$ _____

Nature/Reason:

Anticipated Savings to County: _____

Net County Cost (this year): _____
Over Five Years: _____

Additional Comments/Explanation:

The involved resolution would adopt SEQR findings for the construction of a solar array on the Dutchess County Airport. The finances involved will be addressed in the associated contract.

Prepared by: Brad Barclay

Prepared On: 7/14/15

*Full Environmental Assessment Form
Part 1 - Project and Setting*

Instructions for Completing Part 1

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

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

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

A. Project and Sponsor Information.

Name of Action or Project: SolarCity Dutchess Airport		
Project Location (describe, and attach a general location map): 18 Griffith Way , Town of Wappinger, Dutchess County - Tax ID # 6259-03-225301		
Brief Description of Proposed Action (include purpose or need): The proposed action includes the installation of a 2.473 MW ground mount Photovoltaic Array System on a portion of land located on the above referenced property. The installation procedure is a direct push procedure, where utilizing a vehicle posts are driven approximately 4' in depth every 12-16' and the solar panel racks are then mounted to the posts. At the end of the rows of each panel an approximately 2 ft. wide by 2 ft deep trench is dug to connect the panels to the power inverter and then connected into the grid. The disturbance is limited to the posts, fence and trenches at the end of the aisles.		
Name of Applicant/Sponsor: SolarCity	Telephone: 805-663-3812	E-Mail: eschechter@solarcity.com
Address: 3055 Clearview Way		
City/PO: San Mateo	State: CA	Zip Code: 94402
Project Contact (if not same as sponsor; give name and title/role): Elie Schecter	Telephone: 914-924-6450	E-Mail: eschechter@solarcity.com
Address: 203 Ridgewood Drive		
City/PO: Elmsford	State: NY	Zip Code: 10523
Property Owner (if not same as sponsor): Dutchess County C/o Noel H.S. Knille	Telephone: (845) 486-2085	E-Mail: nknille@dutchessny.gov
Address: 626 Dutchess Turnpike		
City/PO: Poughkeepsie	State: NY	Zip Code: 12601

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)		
Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Planning Board or Commission		
c. City Council, Town or <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Village Zoning Board of Appeals		
d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	County Legislative Board - SEQR Approval	submitted on 7/9/15
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSDOT - Curb Cut Application	
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSERDA funding FAA Environmental Assessment Approval	
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes, identify the plan(s):	
<p>The project area of the proposed solar array (in the open field along the eastern side of Route 376) is not located in a special district however special districts do exist on the tax parcel - located on the opposite (western) side of Route 376 adjacent to the airport runway. Those include remediation site 314078 (remedial action completion date of 12/22/11) and 314101 (remedial investigation completion date of 03/31/03)</p>	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes, identify the plan(s):	
<hr/> <hr/> <hr/>	

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
 If Yes, what is the zoning classification(s) including any applicable overlay district?
A-1 (Airport Industry)

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

c. Is a zoning change requested as part of the proposed action? Yes No
 If Yes,
 i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Wappinger Central School District

b. What police or other public protection forces serve the project site?
Town of Wappinger Police, NYS Police

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

d. What parks serve the project site?
N/A

D. Project Details

D.1. Proposed and Potential Development

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

b. a. Total acreage of the site of the proposed action? _____ 510.80 acres
 b. Total acreage to be physically disturbed? _____ 0.20 acres
 c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 9.73 acres *area to be leased by SolarCity

c. Is the proposed action an expansion of an existing project or use? Yes No
 i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
 If Yes,
 i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____
 ii. Is a cluster/conservation layout proposed? Yes No
 iii. Number of lots proposed? _____
 iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No
 i. If No, anticipated period of construction: _____ months
 ii. If Yes:
 • Total number of phases anticipated _____
 • Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
 • Anticipated completion date of final phase _____ month _____ year
 • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures 42 rows

ii. Dimensions (in feet) of largest proposed structure: 8' 5" height; 12' width; and 450' length

iii. Approximate extent of building space to be heated or cooled: N/A square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) Yes No
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)
 _____ Heavy equipment during construction operations only
 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)
 _____ N/A
 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)
 _____ N/A

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

i. During Construction:		ii. During Operations:	
• Monday - Friday:	_____ 7am - 7pm _____	• Monday - Friday:	_____ N/A _____
• Saturday:	_____ N/A _____	• Saturday:	_____ N/A _____
• Sunday:	_____ N/A _____	• Sunday:	_____ N/A _____
• Holidays:	_____ N/A _____	• Holidays:	_____ N/A _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No

If yes:

i. Provide details including sources, time of day and duration:
 Noise will exceed ambient levels during installation of the panels. Construction will only take place during the hours of 7am and 7pm, Monday thru Friday.

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally describe proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

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

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No

If Yes: provide name and location of facility: _____

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

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

Urban Industrial Commercial Residential (suburban) Rural (non-farm)

Forest Agriculture Aquatic Other (specify): Airport

ii. If mix of uses, generally describe:

Forest area exists to the north and east of the site, the airport operations to the west and commercial businesses to the south

b. Land uses and coverts on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	.02	+0.02
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	9.73	9.71	-0.02
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

*The calculations within this table are based on the proposed limit of work area. However, the total acreage to be physically disturbed will be 0.20 acres as noted on page 3, D.1.b.

c. Is the project site presently used by members of the community for public recreation? Yes No
 i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
 If Yes,
 i. Identify Facilities: _____

e. Does the project site contain an existing dam? Yes No
 If Yes:
 i. Dimensions of the dam and impoundment:
 • Dam height: _____ feet
 • Dam length: _____ feet
 • Surface area: _____ acres
 • Volume impounded: _____ gallons OR acre-feet
 ii. Dam's existing hazard classification: _____
 iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
 If Yes:
 i. Has the facility been formally closed? Yes No
 • If yes, cite sources/documentation: _____
 ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____

 iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
 If Yes:
 i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
 If Yes:
 i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): 314078, 314101
 Neither database
 ii. If site has been subject of RCRA corrective activities, describe control measures: _____

 The contamination sites are located on the opposite side of Route 376 NOT in the area of the proposed solar array.
 iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
 If yes, provide DEC ID number(s): 314078, 314101
 iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):
 314078 (remedial action completion date of 12/22/11) and 314101 (remedial investigation completion date of 03/31/03) These sites are located on the opposite side of Route 376 NOT in the area of the proposed solar array.

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ <5 feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

BeB - Bernardston silt loam	_____	13 %
BeC - Bernardston silt loam	_____	84 %
Ha - Halsey mucky silt loam	_____	3 %

d. What is the average depth to the water table on the project site? Average: _____ <2 feet

e. Drainage status of project site soils: Well Drained: _____ 97 % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ 3 % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ 16 % of site
 10-15%: _____ 84 % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No

If Yes to either i or ii, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 857-15, 857-2, 857-14, 857-18 and 857-19 Classification C,B,B(T), C(T)
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal waters Approximate Size 100 acres
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: Principal Aquifer

m. Identify the predominant wildlife species that occupy or use the project site: Typical local wildlife _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: i. Describe the habitat/community (composition, function, and basis for designation): _____ _____ ii. Source(s) of description or evaluation: _____ iii. Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Threatened and Endangered Species Habitat Report prepared by Ecological Solutions, attached.	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Threatened and Endangered Species Habitat Report prepared by Ecological Solutions, attached.	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No i. If Yes: acreage(s) on project site? _____ ii. Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: i. Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes: i. CEA name: Dutchess County Airport Bafefill, Dutchess Airport Land fill (both located on tax parcel - but on opposite side of Route 376) ii. Basis for designation: Inactive landfill, toxic pollutants present, landfill toxic pollutants present iii. Designating agency and date: 7/18/85, 6/19/85 Agency: Dutchess County	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input checked="" type="checkbox"/> Historic Building or District	
ii. Name: New Hackensack Cemetery	
iii. Brief description of attributes on which listing is based:	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
i. Describe possible resource(s):	
ii. Basis for identification:	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
i. Identify resource: <u>Dutchess County Rail Trail</u>	
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):	
iii. Distance between project and resource: <u>0.82 miles.</u>	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
i. Identify the name of the river and its designation:	
ii. Is the activity consistent with development restrictions contained in 6 NYCRR Part 666?	<input type="checkbox"/> Yes <input type="checkbox"/> No

F. Additional Information

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

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

G. Verification

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

Applicant/Sponsor Name Elk School, Sr. Project Manager, SolarCity Date 7/7/15
 Signature  Title Project Manager

PRINT FORM

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Agency Use Only [If applicable]

Project:

Date:

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency and the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If "Yes", answer questions a - j. If "No", move on to Section 2.</i>			
		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

NO

YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

NO

YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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4. Impact on groundwater
 The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. NO YES
 (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)
 If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding
 The proposed action may result in development on lands subject to flooding. NO YES
 (See Part 1. E.2)
 If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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6. Impacts on Air
 The proposed action may include a state regulated air emission source. NO YES
 (See Part 1. D.2.f., D.2.h, D.2.g)
If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

7. Impact on Plants and Animals
 The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) NO YES
If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources			
The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources
 The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)
 If "Yes", answer questions a - g. If "No", go to Section 10.

NO YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

10. Impact on Historic and Archeological Resources
 The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)
 If "Yes", answer questions a - e. If "No", go to Section 11.

NO YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input checked="" type="checkbox"/>	<input type="checkbox"/>

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
e. If any of the above (a-d) are answered "Yes", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input checked="" type="checkbox"/>	<input type="checkbox"/>

11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If "Yes", answer questions a - e. If "No", go to Section 12.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b, E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c, E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - c. If "No", go to Section 13.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

13. Impact on Transportation
 The proposed action may result in a change to existing transportation systems. NO YES
 (See Part 1. D.2.j)
If "Yes", answer questions a - g. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy
 The proposed action may cause an increase in the use of any form of energy. NO YES
 (See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: <u>The project will create 2.473 Mw of energy to be utilized by Dutchess County properties.</u>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

15. Impact on Noise, Odor, and Light
 The proposed action may result in an increase in noise, odors, or outdoor lighting. NO YES
 (See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input checked="" type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) NO YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input checked="" type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input checked="" type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

17. Consistency with Community Plans			
The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2. and C.3.) <i>If "Yes", answer questions a - h. If "No", go to Section 18.</i>		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character			
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) <i>If "Yes", answer questions a - g. If "No", proceed to Part 3.</i>		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

PRINT FULL FORM

Project: Date:

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Please see attached document for supporting information.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: Type 1 Unlisted

Identify portions of EAF completed for this Project: Part 1 Part 2 Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the _____ as lead agency that:

A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: SolarCity Dutchess County Airport PV Array

Name of Lead Agency: Dutchess County

Name of Responsible Officer in Lead Agency: Noel Knille, AIA, ASLA

Title of Responsible Officer: Dutchess County Commissioner of Public Works

Signature of Responsible Officer in Lead Agency:

Date: 7/15/15

Signature of Preparer (if different from Responsible Officer)

Date: 7/15/15

For Further Information:

Contact Person: Noel Knille, AIA, ASLA, Commissioner of Public Works

Address: 626 Dutchess Turnpike, Poughkeepsie, NY 12603

Telephone Number: (845) 486-2121

E-mail: dpwadmln@dutchessny.gov

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)

Other involved agencies (if any)

Applicant (if any)

Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

PRINT FULL FORM



PART III EAF -SUPPLEMENTAL INFORMATION

Project Location:

According to Dutchess County Parcel Access the parcel address is listed as 18 Griffith Way in the Town of Wappinger, Dutchess County, New York and is further described as Tax ID # 6259-03-225301 and being 510.80 acres

Project Description:

The proposed action includes the construction and installation of a 2.473 Mw ground mounted Photovoltaic Array system on a portion of the land located on the above referenced property.

The installation of the solar array panels are a direct push procedure, where utilizing a vehicle, posts are driven approximately 4' in depth every 12'-16' and the solar panel racks are then mounted to the posts. At the end of each row of panels an approximately 2'x2' trench is dug to connect the panels to the power inverter. The trench will run from the array west, through the property and connect to a utility pole located along the eastern side of Route 376. The overall ground disturbance is 9.73 acres which is limited to the posts, fence and trenches for which the proposed hard surface totals approximately 0.20 acres.

Required Permits and Approvals:

1. Federal Aviation Administration (FAA) Environmental Assessment Approval. This is the FAA's own, separate, environmental assessment for the project area and how it relates strictly to airport operations.
2. NYSDOT Curb Cut Access

Studies and Reports Prepared for the Project Site:

The applicant prepared and submitted the following documents as part of the environmental review process for the project site:

- New York State Office of Parks Recreation & Historic Preservation (OPRHP) Review: The project engineer created a consultation project with the OPRHP Cultural Resource Information System (CRIS) online portal. On May 5th, 2015 a Letter of No Impact was received.
- Wetland Delineation Report: On April 24th, 2015 a Wetland Delineation Report was prepared by Michael Nowicki of Ecological Solutions, LLC. It was determined that a portion of NYSDEC regulated wetland PV-51, which is also regulated by USACE and the Town of Wappinger was found to be located on the subject parcel. However, the proposed project was designed so

that the entire limit of work area was outside of the 100' regulated buffer of that wetland area. The report concludes that no impacts are proposed to the wetlands.

- **Threatened and Endangered Species Habitat Suitability Assessment Report:** On April 24th, 2015 a report was prepared by Michael Nowicki of Ecological Solutions, LLC. The report states that four types of threatened or endangered species are known to be in the area; the Indiana Bat, the Northern Long-Eared Bat, New England Cottontail and Dwarf Wedgemussel. The construction of the proposed solar array will not require any tree clearing so no mitigation would be necessary for any potential bat habitat. The site provides none of the characteristics associated with the habitat of the cottontail and there is no supporting tributary in the project area that would provide habitat for the wedgemussel. Therefore there would be no impacts to any threatened or endangered species due to the construction of this proposed action.
- **Glare Analysis:** A complete glare analysis was prepared by SolarCity. The report shows that there would be no significant impact to existing airport traffic from the Dutchess County Airport. There is no anticipated impact to motorist travel along Route 376.

Reasons Supporting This Determination:

The following information provides details on the impacts as depicted in Part II of the EAF where an impact has been identified.

1. Impact on Land

Although the proposed development will have an impact on land surface of the project site that impact is minimal. There will be approximately 0.20 acres of hard surface proposed as part of this action. According to the USDA Soils Map the majority of the soils in the area are BeB and BeC Bernardston silt loam which both have a depth to water table of about 18 to 24 inches.

There are no other impacts to the land for construction of the proposed solar array.

2. Impact on Geological Features

There are no impacts to geological features associated with the development of this action.

3. Impact on Surface Water

The only impact under this section applies to 3(d) of Part II of the EAF in which the proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body. In this case the project site only involves land that adjoins a wetland area. The project has been designed so that it will not impact the 100' regulated buffer of this wetland. Therefore no impacts are associated with surface water from this action.

4. Impacts on Groundwater

There are no impacts to groundwater associated with the development of this action.

5. Impacts on Flooding

There are no impacts to flooding associated with the development of this action.

6. Impacts on Air

The only temporary emissions generated from this project would consist of those created by the construction equipment used to install the solar panels and the personal vehicles of the work personnel. This impact is anticipated to last approximately two months.

No other impacts on air are associated with this action.

7. Impacts on Plants and Animals

A Threatened and Endangered Species Habitat Suitability Assessment Report was prepared was prepared by Michael Nowicki of Ecological Solutions, LLC on April 24th, 2015. The report states that four types of threatened or endangered species are known to be in the area; the Indiana Bat, the Northern Long-Eared Bat, New England Cottontail and Dwarf Wedgemussel. The construction of the proposed solar array will not require any tree clearing no mitigation would be necessary for potential bat habitat. The site provides none of the characteristics associated with the habitat of the cottontail and there is no supporting tributary in the project area that would provide habitat for the wedgemussel.

No negative impact would be anticipated to plants or animals due to the development of the project site, based on the project reports.

8. Impacts on Agricultural Resources

There are no impacts to agricultural resources associated with the development of this action.

9. Impact on Aesthetic Resources

The proposed action will be visible from Route 376. The location and angle of the array has been designed to provide as much natural buffer to Route 376 as possible. No glare is expected to impact motorists traveling along this roadway.

10. Impact on Historic and Archaeological Resources

The project site is located within an archaeological sensitive area. The project engineer has worked with NYSOPRHP to review the project and a letter of No Impact has been received.

The proposed action will not result in the alteration of the properties integrity.

11. Impacts on Open Space and Recreation

There are no impacts to open space and recreation associated with the development of this action.

12. Impacts on Critical Environmental Areas

There are no impacts to critical environmental areas associated with the development of this action.

13. Impacts on Transportation

There are no impacts to transportation associated with the development of this action.

14. Impact on Energy

A Power Purchase Agreement (PPA) has been entered into between SolarCity and Dutchess County where 2.473 Mw of solar power is to be produced. That generated power will be introduced into the grid for Dutchess County to use to offset the energy costs associated with power consumption for County owned buildings.

The impact would be to decrease the amount of electric energy used from the grid and replace it with the increased use of renewable, solar energy which would also provide a cost savings to the County.

15. Impact on Noise, Odor, and Light

The only temporary minor impact will be noise that may exceed ambient noise levels during the two month construction period only.

16. Impact on Human Health

Four sites are listed on the NYSDEC Environmental Site Remediation Database. The first is the Dutchess County Airport Landfill – Site Code 314022 and is located adjacent to the Wappinger Creek on the north and west sides and is adjacent to the airport. This site is located on the opposite side of Route 376 from the proposed project area and will not be impacted.

The second site is the Dutchess County Airport Balefill – Site Code 314023 which is located adjacent to the Wappinger Creek to the north and west and Jackson Road to the south with the airport along the eastern perimeter. This site is approximately 5,000 feet away from the project area.

The third site is the Dutchess County Airport Hangar Facility – Site Code 314078 which is located on the southeastern portion of the airport. The site is reached via Griffith Way and is approximately 4,000 feet from the proposed project site.

The final site listed on the database is the Flagship Airlines Hangar –Site Code 314101 which is located in the southeastern portion of the airport via Griffith way and in the general area as site number three listed above. This location is also approximately 4,000 feet away from the proposed project area.

The only impact listed that applies to the project is that it would be located within 2,000 feet of a site used for the disposal of solid or hazardous waste (site number 1 listed above). The landfill is located on the subject parcel however it is located on the opposite side of Route 376 approximately 1,100 feet to the west of the proposed solar array.

17. Consistency with Community Plans

The action is consistent with community plans and will not have an impact on community development or land use

18. Consistency with Community Character

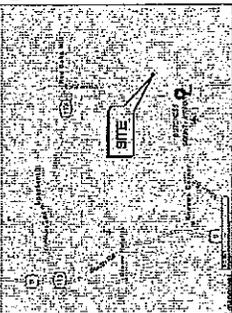
The action is consistent with the community character and will not have an impact on current public resources or community services.

SOLARCITY

SITE PLANS AND DETAILS
DUTCHESS COUNTY-AIRPORT
TAX MAP ID# 6259-03-225301
18 GRIFFITH WAY

TOWN OF WAPPINGER, DUTCHESS COUNTY,
NEW YORK

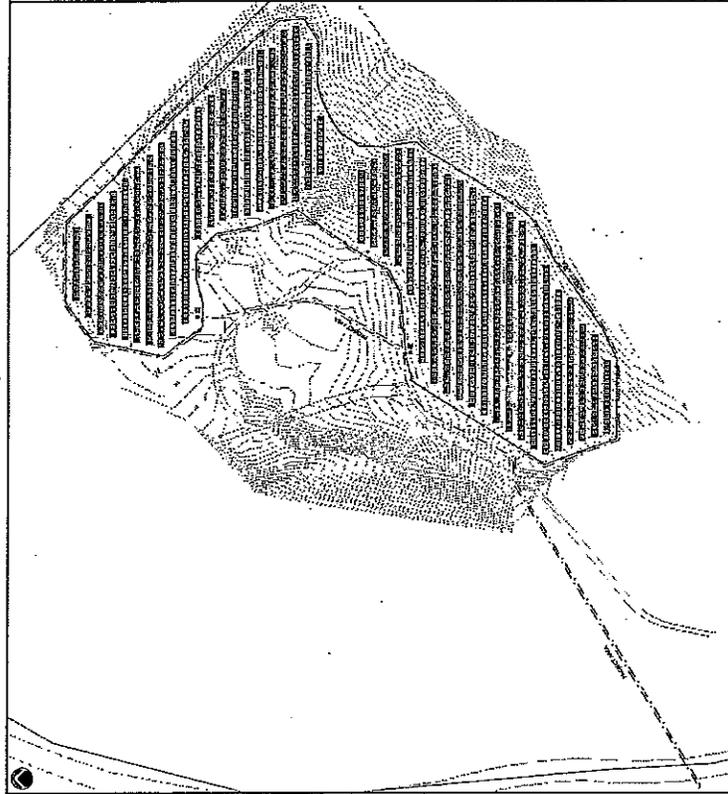
SUBMITTED : JULY 9, 2015



VICINITY MAP



LOCATION MAP



PROJECT AREA PLAN

INDEX OF DRAWINGS

CV-1	COVER SHEET
EX-1	EXISTING CONDITIONS
SP-1	SITE PLAN & EROSION AND SEDIMENTATION CONTROL PLAN
DN-1	DETAIL SHEET

PROJECT ENGINEER:

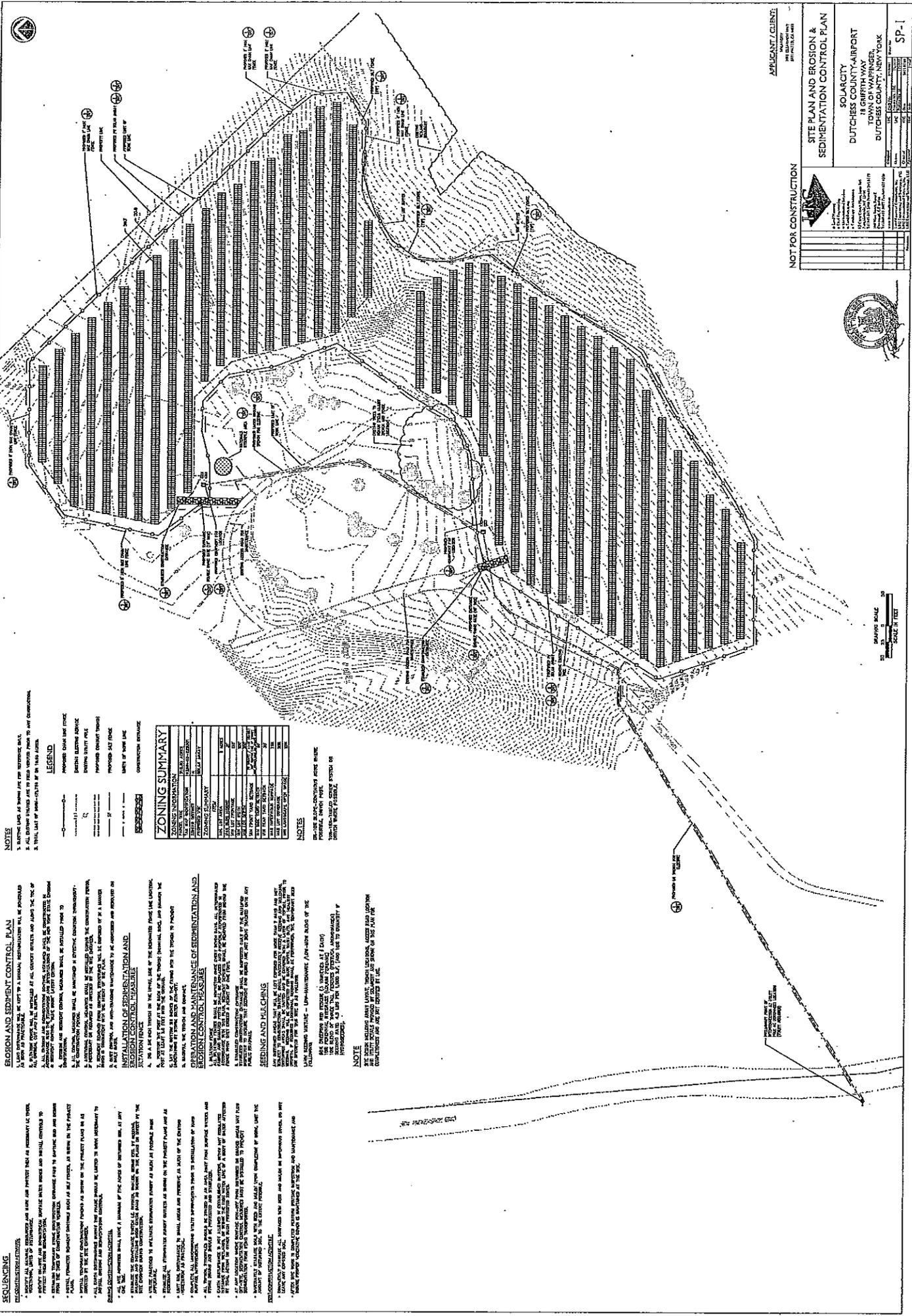


APPLICANT INFORMATION:

PROJECT: SOLARCITY
18 GRIFFITH WAY
WAPPINGER, NY 12589



NOTE
SITE EARTH INCLUDING ARMY LANDS, WOODS, LOCATIONS, ADJERS
AND LOCATIONS AND VARIOUS DETAILS PROVIDED BY SOLARCITY AND
THESE ARE NOT TO BE CONSIDERED AS A PART OF THE DESIGN
BY THE ENGINEER.



NOTE

1. BURNING LAND IS SHOWN FOR INFORMATION ONLY.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

- LEGEND**
- 12" HIGH SILT FENCE
 - 18" HIGH SILT FENCE
 - 24" HIGH SILT FENCE
 - 30" HIGH SILT FENCE
 - 36" HIGH SILT FENCE
 - 42" HIGH SILT FENCE
 - 48" HIGH SILT FENCE
 - 54" HIGH SILT FENCE
 - 60" HIGH SILT FENCE
 - 66" HIGH SILT FENCE
 - 72" HIGH SILT FENCE
 - 78" HIGH SILT FENCE
 - 84" HIGH SILT FENCE
 - 90" HIGH SILT FENCE
 - 96" HIGH SILT FENCE
 - 102" HIGH SILT FENCE
 - 108" HIGH SILT FENCE
 - 114" HIGH SILT FENCE
 - 120" HIGH SILT FENCE
 - 126" HIGH SILT FENCE
 - 132" HIGH SILT FENCE
 - 138" HIGH SILT FENCE
 - 144" HIGH SILT FENCE
 - 150" HIGH SILT FENCE
 - 156" HIGH SILT FENCE
 - 162" HIGH SILT FENCE
 - 168" HIGH SILT FENCE
 - 174" HIGH SILT FENCE
 - 180" HIGH SILT FENCE
 - 186" HIGH SILT FENCE
 - 192" HIGH SILT FENCE
 - 198" HIGH SILT FENCE
 - 204" HIGH SILT FENCE
 - 210" HIGH SILT FENCE
 - 216" HIGH SILT FENCE
 - 222" HIGH SILT FENCE
 - 228" HIGH SILT FENCE
 - 234" HIGH SILT FENCE
 - 240" HIGH SILT FENCE
 - 246" HIGH SILT FENCE
 - 252" HIGH SILT FENCE
 - 258" HIGH SILT FENCE
 - 264" HIGH SILT FENCE
 - 270" HIGH SILT FENCE
 - 276" HIGH SILT FENCE
 - 282" HIGH SILT FENCE
 - 288" HIGH SILT FENCE
 - 294" HIGH SILT FENCE
 - 300" HIGH SILT FENCE

ZONING SUMMARY

ZONING CODE	ZONING DESCRIPTION	MINIMUM LOT AREA (SQ FT)	MINIMUM LOT WIDTH (FT)	MINIMUM FRONT YARD SETBACK (FT)	MINIMUM SIDE YARD SETBACK (FT)	MINIMUM REAR YARD SETBACK (FT)	MINIMUM FRONT SETBACK (FT)	MINIMUM SIDE SETBACK (FT)	MINIMUM REAR SETBACK (FT)
R-1	Single-Family Residential	10,000	30	10	5	5	10	5	10
R-2	Single-Family Residential	15,000	35	10	5	5	10	5	10
R-3	Single-Family Residential	20,000	40	10	5	5	10	5	10
R-4	Single-Family Residential	25,000	45	10	5	5	10	5	10
R-5	Single-Family Residential	30,000	50	10	5	5	10	5	10
R-6	Single-Family Residential	35,000	55	10	5	5	10	5	10
R-7	Single-Family Residential	40,000	60	10	5	5	10	5	10
R-8	Single-Family Residential	45,000	65	10	5	5	10	5	10
R-9	Single-Family Residential	50,000	70	10	5	5	10	5	10
R-10	Single-Family Residential	55,000	75	10	5	5	10	5	10
R-11	Single-Family Residential	60,000	80	10	5	5	10	5	10
R-12	Single-Family Residential	65,000	85	10	5	5	10	5	10
R-13	Single-Family Residential	70,000	90	10	5	5	10	5	10
R-14	Single-Family Residential	75,000	95	10	5	5	10	5	10
R-15	Single-Family Residential	80,000	100	10	5	5	10	5	10
R-16	Single-Family Residential	85,000	105	10	5	5	10	5	10
R-17	Single-Family Residential	90,000	110	10	5	5	10	5	10
R-18	Single-Family Residential	95,000	115	10	5	5	10	5	10
R-19	Single-Family Residential	100,000	120	10	5	5	10	5	10
R-20	Single-Family Residential	105,000	125	10	5	5	10	5	10
R-21	Single-Family Residential	110,000	130	10	5	5	10	5	10
R-22	Single-Family Residential	115,000	135	10	5	5	10	5	10
R-23	Single-Family Residential	120,000	140	10	5	5	10	5	10
R-24	Single-Family Residential	125,000	145	10	5	5	10	5	10
R-25	Single-Family Residential	130,000	150	10	5	5	10	5	10
R-26	Single-Family Residential	135,000	155	10	5	5	10	5	10
R-27	Single-Family Residential	140,000	160	10	5	5	10	5	10
R-28	Single-Family Residential	145,000	165	10	5	5	10	5	10
R-29	Single-Family Residential	150,000	170	10	5	5	10	5	10
R-30	Single-Family Residential	155,000	175	10	5	5	10	5	10
R-31	Single-Family Residential	160,000	180	10	5	5	10	5	10
R-32	Single-Family Residential	165,000	185	10	5	5	10	5	10
R-33	Single-Family Residential	170,000	190	10	5	5	10	5	10
R-34	Single-Family Residential	175,000	195	10	5	5	10	5	10
R-35	Single-Family Residential	180,000	200	10	5	5	10	5	10
R-36	Single-Family Residential	185,000	205	10	5	5	10	5	10
R-37	Single-Family Residential	190,000	210	10	5	5	10	5	10
R-38	Single-Family Residential	195,000	215	10	5	5	10	5	10
R-39	Single-Family Residential	200,000	220	10	5	5	10	5	10
R-40	Single-Family Residential	205,000	225	10	5	5	10	5	10
R-41	Single-Family Residential	210,000	230	10	5	5	10	5	10
R-42	Single-Family Residential	215,000	235	10	5	5	10	5	10
R-43	Single-Family Residential	220,000	240	10	5	5	10	5	10
R-44	Single-Family Residential	225,000	245	10	5	5	10	5	10
R-45	Single-Family Residential	230,000	250	10	5	5	10	5	10
R-46	Single-Family Residential	235,000	255	10	5	5	10	5	10
R-47	Single-Family Residential	240,000	260	10	5	5	10	5	10
R-48	Single-Family Residential	245,000	265	10	5	5	10	5	10
R-49	Single-Family Residential	250,000	270	10	5	5	10	5	10
R-50	Single-Family Residential	255,000	275	10	5	5	10	5	10
R-51	Single-Family Residential	260,000	280	10	5	5	10	5	10
R-52	Single-Family Residential	265,000	285	10	5	5	10	5	10
R-53	Single-Family Residential	270,000	290	10	5	5	10	5	10
R-54	Single-Family Residential	275,000	295	10	5	5	10	5	10
R-55	Single-Family Residential	280,000	300	10	5	5	10	5	10
R-56	Single-Family Residential	285,000	305	10	5	5	10	5	10
R-57	Single-Family Residential	290,000	310	10	5	5	10	5	10
R-58	Single-Family Residential	295,000	315	10	5	5	10	5	10
R-59	Single-Family Residential	300,000	320	10	5	5	10	5	10
R-60	Single-Family Residential	305,000	325	10	5	5	10	5	10
R-61	Single-Family Residential	310,000	330	10	5	5	10	5	10
R-62	Single-Family Residential	315,000	335	10	5	5	10	5	10
R-63	Single-Family Residential	320,000	340	10	5	5	10	5	10
R-64	Single-Family Residential	325,000	345	10	5	5	10	5	10
R-65	Single-Family Residential	330,000	350	10	5	5	10	5	10
R-66	Single-Family Residential	335,000	355	10	5	5	10	5	10
R-67	Single-Family Residential	340,000	360	10	5	5	10	5	10
R-68	Single-Family Residential	345,000	365	10	5	5	10	5	10
R-69	Single-Family Residential	350,000	370	10	5	5	10	5	10
R-70	Single-Family Residential	355,000	375	10	5	5	10	5	10
R-71	Single-Family Residential	360,000	380	10	5	5	10	5	10
R-72	Single-Family Residential	365,000	385	10	5	5	10	5	10
R-73	Single-Family Residential	370,000	390	10	5	5	10	5	10
R-74	Single-Family Residential	375,000	395	10	5	5	10	5	10
R-75	Single-Family Residential	380,000	400	10	5	5	10	5	10
R-76	Single-Family Residential	385,000	405	10	5	5	10	5	10
R-77	Single-Family Residential	390,000	410	10	5	5	10	5	10
R-78	Single-Family Residential	395,000	415	10	5	5	10	5	10
R-79	Single-Family Residential	400,000	420	10	5	5	10	5	10
R-80	Single-Family Residential	405,000	425	10	5	5	10	5	10
R-81	Single-Family Residential	410,000	430	10	5	5	10	5	10
R-82	Single-Family Residential	415,000	435	10	5	5	10	5	10
R-83	Single-Family Residential	420,000	440	10	5	5	10	5	10
R-84	Single-Family Residential	425,000	445	10	5	5	10	5	10
R-85	Single-Family Residential	430,000	450	10	5	5	10	5	10
R-86	Single-Family Residential	435,000	455	10	5	5	10	5	10
R-87	Single-Family Residential	440,000	460	10	5	5	10	5	10
R-88	Single-Family Residential	445,000	465	10	5	5	10	5	10
R-89	Single-Family Residential	450,000	470	10	5	5	10	5	10
R-90	Single-Family Residential	455,000	475	10	5	5	10	5	10
R-91	Single-Family Residential	460,000	480	10	5	5	10	5	10
R-92	Single-Family Residential	465,000	485	10	5	5	10	5	10
R-93	Single-Family Residential	470,000	490	10	5	5	10	5	10
R-94	Single-Family Residential	475,000	495	10	5	5	10	5	10
R-95	Single-Family Residential	480,000	500	10	5	5	10	5	10
R-96	Single-Family Residential	485,000	505	10	5	5	10	5	10
R-97	Single-Family Residential	490,000	510	10	5	5	10	5	10
R-98	Single-Family Residential	495,000	515	10	5	5	10	5	10
R-99	Single-Family Residential	500,000	520	10	5	5	10	5	10
R-100	Single-Family Residential	505,000	525	10	5	5	10	5	10

NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
2. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

EROSION AND SEDIMENT CONTROL PLAN

The purpose of this plan is to provide a detailed description of the erosion and sediment control measures to be installed and maintained throughout the construction process. This plan is intended to be used in conjunction with the site plan and zoning regulations to ensure that all erosion and sediment control measures are properly installed and maintained.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

The installation of sedimentation and erosion control measures shall be in accordance with the following specifications:

1. All sedimentation basins shall be installed in accordance with the specifications set forth in this plan.
2. All erosion control measures shall be installed in accordance with the specifications set forth in this plan.
3. All sedimentation basins shall be installed in accordance with the specifications set forth in this plan.
4. All erosion control measures shall be installed in accordance with the specifications set forth in this plan.
5. All sedimentation basins shall be installed in accordance with the specifications set forth in this plan.
6. All erosion control measures shall be installed in accordance with the specifications set forth in this plan.
7. All sedimentation basins shall be installed in accordance with the specifications set forth in this plan.
8. All erosion control measures shall be installed in accordance with the specifications set forth in this plan.
9. All sedimentation basins shall be installed in accordance with the specifications set forth in this plan.
10. All erosion control measures shall be installed in accordance with the specifications set forth in this plan.

SEEDING AND MULCHING

The seeding and mulching shall be in accordance with the following specifications:

1. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
2. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
3. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
4. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
5. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
6. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
7. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
8. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
9. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.
10. All seeding and mulching shall be installed in accordance with the specifications set forth in this plan.

NOTE

The contractor shall be responsible for the installation and maintenance of all erosion and sediment control measures. The contractor shall also be responsible for the seeding and mulching of all exposed soil. The contractor shall also be responsible for the maintenance of all sedimentation basins. The contractor shall also be responsible for the maintenance of all erosion control measures. The contractor shall also be responsible for the maintenance of all seeding and mulching. The contractor shall also be responsible for the maintenance of all sedimentation basins. The contractor shall also be responsible for the maintenance of all erosion control measures. The contractor shall also be responsible for the maintenance of all seeding and mulching.

SEEDING

The seeding shall be in accordance with the following specifications:

1. All seeding shall be installed in accordance with the specifications set forth in this plan.
2. All seeding shall be installed in accordance with the specifications set forth in this plan.
3. All seeding shall be installed in accordance with the specifications set forth in this plan.
4. All seeding shall be installed in accordance with the specifications set forth in this plan.
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7. All seeding shall be installed in accordance with the specifications set forth in this plan.
8. All seeding shall be installed in accordance with the specifications set forth in this plan.
9. All seeding shall be installed in accordance with the specifications set forth in this plan.
10. All seeding shall be installed in accordance with the specifications set forth in this plan.

MULCHING

The mulching shall be in accordance with the following specifications:

1. All mulching shall be installed in accordance with the specifications set forth in this plan.
2. All mulching shall be installed in accordance with the specifications set forth in this plan.
3. All mulching shall be installed in accordance with the specifications set forth in this plan.
4. All mulching shall be installed in accordance with the specifications set forth in this plan.
5. All mulching

CONSTRUCTION SPECIFICATIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN.

4. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL WORK DONE AND MATERIALS USED.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS MATERIAL AND DEBRIS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND UTILITIES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SOILS AND VEGETATION.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WATERWAYS AND DRAINAGE SYSTEMS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING HISTORIC STRUCTURES AND MONUMENTS.

EQUIPMENT PAD FRONT ELEVATION

1. THE EQUIPMENT PAD SHALL BE CONSTRUCTED OF 12" THICK CONCRETE ON A 4" SAND BED.

2. THE EQUIPMENT PAD SHALL BE 10' X 10' IN SIZE.

3. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

4. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

5. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

6. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

7. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

8. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

9. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

10. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

CHAIN LINK FENCE DETAIL

1. THE CHAIN LINK FENCE SHALL BE 42" HIGH.

2. THE CHAIN LINK FENCE SHALL BE 4" GALVANIZED STEEL.

3. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

4. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

5. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

6. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

7. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

8. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

9. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

10. THE CHAIN LINK FENCE SHALL BE 1" BELOW FINISH GRADE.

MATERIALS STOCKPILE DETAIL

1. THE MATERIALS STOCKPILE SHALL BE 10' X 10' IN SIZE.

2. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

3. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

4. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

5. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

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7. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

8. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

9. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

10. THE MATERIALS STOCKPILE SHALL BE 1" BELOW FINISH GRADE.

EQUIPMENT PAD SIDE ELEVATION

1. THE EQUIPMENT PAD SHALL BE 12" THICK CONCRETE ON A 4" SAND BED.

2. THE EQUIPMENT PAD SHALL BE 10' X 10' IN SIZE.

3. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

4. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

5. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

6. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

7. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

8. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

9. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

10. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

TABLED CHAIN SYSTEM

1. THE TABLED CHAIN SYSTEM SHALL BE 42" HIGH.

2. THE TABLED CHAIN SYSTEM SHALL BE 4" GALVANIZED STEEL.

3. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

4. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

5. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

6. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

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8. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

9. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

10. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

EQUIPMENT PAD PLANS

1. THE EQUIPMENT PAD SHALL BE 10' X 10' IN SIZE.

2. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

3. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

4. THE EQUIPMENT PAD SHALL BE 1" BELOW FINISH GRADE.

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9. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

10. THE TABLED CHAIN SYSTEM SHALL BE 1" BELOW FINISH GRADE.

CONTINUOUS DRIVEN POST SYSTEM

1. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 42" HIGH.

2. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 4" GALVANIZED STEEL.

3. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

4. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

5. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

6. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

7. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

8. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

9. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

10. THE CONTINUOUS DRIVEN POST SYSTEM SHALL BE 1" BELOW FINISH GRADE.

TRENCH THROUGH SOIL NONTRAFFIC DETAIL

1. THE TRENCH SHALL BE 18" WIDE AND 18" DEEP.

2. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

3. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

4. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

5. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

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9. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

10. THE TRENCH SHALL BE 1" BELOW FINISH GRADE.

ASBRAY PLAN VIEW

1. THE ASBRAY PLAN VIEW SHALL BE 10' X 10' IN SIZE.

2. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

3. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

4. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

5. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

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9. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

10. THE ASBRAY PLAN VIEW SHALL BE 1" BELOW FINISH GRADE.

DETAIL SHEET

SOLAR CITY

DUTCHESS COUNTY-AIRPORT

TOWN OF WAPPINGER

DUTCHESS COUNTY, NEW YORK

NOT FOR CONSTRUCTION

APPLICANT / CLIENT

DESIGNER

DATE

SCALE

PROJECT NO.

SHEET NO.

TOTAL SHEETS

DN-I



Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

May 05, 2015

Mrs. Nicole Patti
LRC Group
85 Civic Center Plaza
Suite 103
Poughkeepsie, NY 12601

Re: ERDA
Dutchess Airport Solar Array
18 Griffith Way, Wappinger, NY 12590
15PR01926

Dear Mrs. Patti:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the New York State Office of Parks, Recreation and Historic Preservation's opinion that your project will have no impact on archaeological and/or historic resources listed in or eligible for the New York State and National Registers of Historic Places.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont

Deputy Commissioner for Historic Preservation

Division for Historic Preservation

P.O. Box 189, Waterford, New York 12188-0189 • (518) 237-8643 • www.nysparks.com

*Threatened and Endangered Species
Habitat Suitability Assessment Report*

Dutchess County Airport Site
Route 376
Town of Wappinger
Dutchess County, New York

April 24, 2015

Prepared by:

Michael Nowicki
Ecological Solutions, LLC
1248 Southford Road
Southbury, CT 06488
(203) 910-4716

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1.0 INTRODUCTION

Ecological Solutions, LLC completed a threatened and endangered species habitat assessment on previously impacted site totaling about 100 acres located on the east side of State Route 376 in the Town of Wappinger, Dutchess County, New York (Figure 1). The proposed project is a solar array to serve the airport.

The New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper indicates that there are known occurrences of State regulated threatened or endangered species (Indiana bat) in the vicinity of the site (Figure 2).

A review of the US Fish and Wildlife Service (USFWS) list of federal threatened, endangered, proposed endangered, and candidate species in Dutchess County indicates that there is the potential for Indiana bat (*Myotis sodalis*), Northern long-eared bat (*Myotis septentrionalis*), dwarf wedgemussel (*Alasmidonta heterodon*), and New England cottontail (*Sylvilagus transitionalis*) to be located on the site since they occur in the County.

The purpose of the assessment was to determine if potential habitat exists for listed species on the site. A field assessment was conducted on April 23, 2015 and habitat on the site was observed and is listed in Table 1.

TABLE 1
COVER TYPES IDENTIFIED ON THE SITE

COVER TYPE NAMES
Mowed Field
Wet Meadow

1. Mowed Field

The area of the proposed solar array is generally mowed/maintained field dominated by grass and other field species.

2. Wet Meadow

The wet meadow is a portion of NYSDEC regulated wetland PV-51 which is also regulated by the USACE and Town of Wappinger. This wetland has a regulated 100 foot buffer or Adjacent Area.

2.0 HABITAT SUITABILITY ASSESSMENT/CONCLUSION

The species reviewed are from the USFWS list for the site.

2.0-1 Indiana Bats

The Indiana bat typically hibernates in caves/mines in the winter and roosts under bark or in tree crevices in the spring, summer, and fall. Suitable potential summer roosting habitat is characterized by trees (dead, dying, or alive) or snags with exfoliating or defoliating bark, or containing cracks or crevices that could potentially be used by Indiana bats as a roost. The minimum diameter of roost trees observed to date is 2.5 inches for males and 4.3 inches for females. However, maternity colonies generally use trees greater than or equal to 9 inches dbh. Overall, roost tree structure appears to be more important to Indiana bats than a particular tree species or habitat type. Females appear to be more habitat specific than males presumably because of the warmer temperature requirements associated with gestation and rearing of young. As a result, they are generally found at lower elevations than males may be found. Roosts are warmed by direct exposure to solar radiation, thus trees exposed to extended periods of direct sunlight are preferred over those in shaded areas. However, shaded roosts may be preferred in very hot conditions. As larger trees afford a greater thermal mass for heat retention, they appear to be preferred over smaller trees.

Streams associated with floodplain forests, and impounded water bodies (ponds, wetlands, reservoirs, etc.) where abundant supplies of flying insects are likely found provide preferred foraging habitat for Indiana bats, some of which may fly up to 2-5 miles from upland roosts on a regular basis. Indiana bats also forage within the canopy of upland forests, over clearings with early successional vegetation (e.g., old fields), along the borders of croplands, along wooded fencerows, and over farm ponds in pastures. While Indiana bats appear to forage in a wide variety of habitats, they seem to tend to stay fairly close to tree cover.

Conclusion - The proposed project area of the site does not possess habitat for the Indiana bat because there are no trees in the project area only open mowed/maintained field. The construction of the proposed solar array will not require tree clearing. No mitigation is proposed since there will no tree removal.

2.0-2 Northern long eared bats

Winter Habitat: Same as the Indiana bat northern long-eared bats spend winter hibernating in caves and mines, called hibernacula. They typically use large caves or mines with large passages and entrances; constant temperatures; and high humidity with no air currents. Specific areas where they hibernate have very high humidity, so much so that droplets of water are often seen on their fur. Within hibernacula, surveyors find them in small crevices or cracks, often with only the nose and ears visible.

Summer Habitat: During summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees. Males and non-reproductive females may also roost in cooler places, like caves and mines. This bat seems opportunistic in selecting roosts, using tree species based on suitability to retain bark or provide cavities or crevices. It has also been found, rarely, roosting in structures like barns and sheds.

Feeding Habits: Northern long-eared bats emerge at dusk to fly through the understory of forested hillsides and ridges feeding on moths, flies, leafhoppers, caddisflies, and beetles, which they catch while in flight using echolocation. This bat also feeds by gleaning motionless insects from vegetation and water surfaces.

Conclusion - The northern long eared bat requires/occupies practically the same habitat niche as the Indiana bat. No mitigation measures are proposed.

2.0-3 New England cottontail

The New England cottontail retains its brown color during winter, making it easy prey to coyotes and owls when it cannot find adequate habitat cover. It is an early-successional species, preferring dense shrubby areas and thickets. The ideal habitat is 25 acres of continuous early successional habitat within a larger landscape that provides shrub wetlands and dense thickets.

Conclusion - The site is open upland and provides none of the characteristic shrub dominated thicket habitat associated with the New England cottontail. No impacts will occur to this species.

2.0-4 Dwarf wedgemussel

The dwarf wedge mussel is found at 17 sites in seven Atlantic Coast drainages. These are located in New Hampshire, Vermont, Connecticut, New York, Maryland, Virginia and North Carolina. Typical habitat for this mussel includes running waters of all sizes, from small brooks to large rivers. Bottom substrates include silt, sand and gravel, which may be distributed in relatively small patches behind larger cobbles and boulders. The river velocity is usually slow to moderate. Dwarf wedge mussels appear to select or are at least tolerant of relatively low levels of calcium in the water.

Conclusion - There is no supporting tributary in the project area so no impacts will occur.

3.0 PHOTOGRAPHS

Typical field habitat in area of proposed solar array



Wetland in background



Typical field habitat in area of proposed solar array - wetland in background



Figure 1 - Location Map



Figure 2 - NYSDEC Map

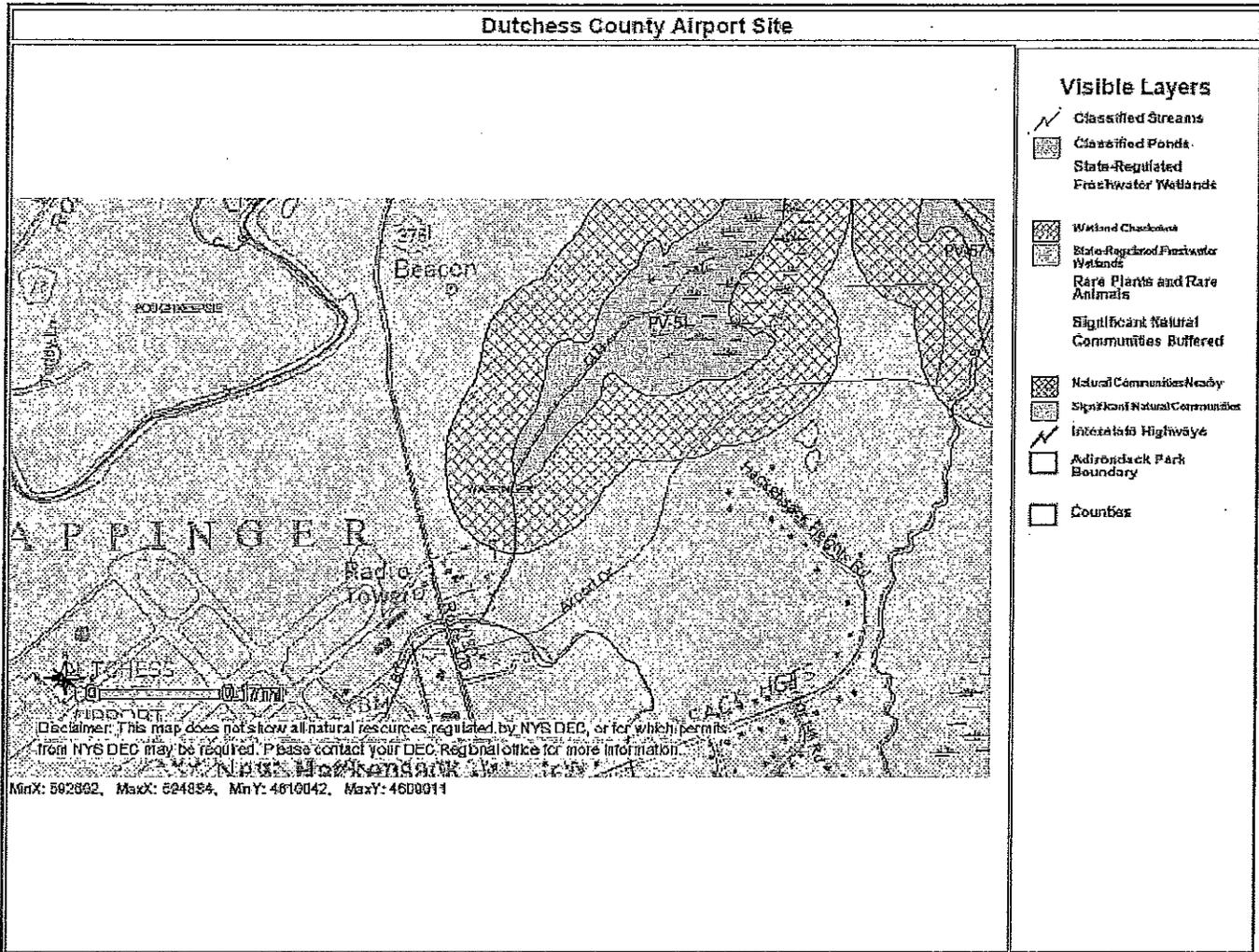
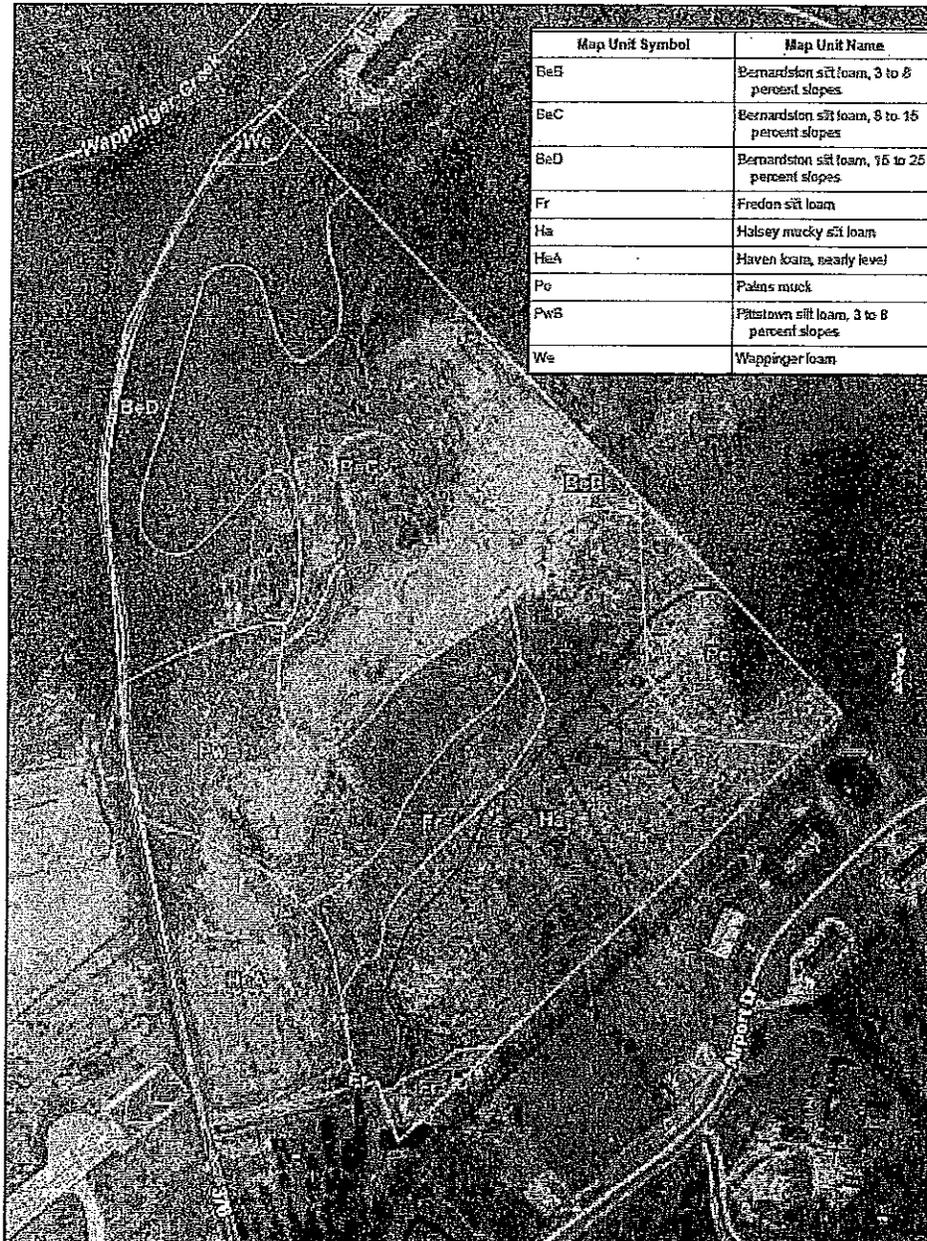


Figure 3 - Soil Map



Wetland Delineation Report

Dutchess County Airport Site
Route 376
Town of Wappinger
Dutchess County, New York

April 24, 2015

Prepared by:

Michael Nowicki
Ecological Solutions, LLC
1248 Southford Road
Southbury, CT 06488
(203) 910-4716

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WETLAND DELINEATION REPORT

1.0 INTRODUCTION

Ecological Solutions, LLC completed a Federal (US Army Corps of Engineers), State (NY State Department of Environmental Conservation) and Local (Town of Wappinger) wetland delineation on previously impacted site totaling about 100 acres located on the east side of State Route 376 in the Town of Wappinger, Dutchess County, New York (*Figure 1*). The proposed project is a solar array to serve the airport.

The field delineation was conducted on April 23, 2015. The methodology used for this delineation consisted of the Routine Onsite Determination Method prescribed in the 1987 USACE Wetlands Delineation Manual¹ and recent northeast/northcentral supplement, NYSDEC Article 24 Freshwater Wetland regulations, and Town of Wappinger Wetland Code - Chapter 137. A baseline, Route 376, was established, and 2 transects were traversed (field investigated) through the project area. Vegetation was sampled along these transects at 100' intervals or observation points where applicable. Dominant vegetation was noted at each point, and hydrophytic (wetland) vegetation was considered to be present when 50% or more of the vegetation throughout the strata of each plant community was classified as either facultative, facultative wet, or obligate wet. Hydrophytic vegetation was also positively identified based on the presence of secondary characteristics including morphological adaptations for occurrence in wetlands. Adaptations noted include: adventitious roots, shallow root systems where surface rock was not apparent, buttressed trunks, and hypertrophied lenticels. Soils were then sampled where facultative or facultative wet vegetation was dominant. Soils were not determined where the dominant vegetation was obligate wet. These points were classified as Federal wetland without further investigation.

Soil samples were taken with a dutch slotted auger to a depth of 18" of the soil profile where possible. Hydric soil indicators noted include: presence of seasonal high water table, inundation, presence of hydrogen sulfide, soil chroma of 1 (without mottles) or 2 (with mottles) as per the Munsell Soil Color Chart, gleying, iron and manganese concretions, and oxidized rhizospheres. Hydric soils were determined to be present when any one of these indicators was recognized.

Each observation point was also examined to determine if wetland hydrology was present at some time during the growing season. Indicators of wetland hydrology noted at the site include: soil saturation within the test hole or at the soil surface, inundation, positive drainage patterns, and watermarks on tree trunks or waterstained leaves on the ground.

When an observation point contained all three wetland parameters: hydrophytic vegetation, hydric soils, and evidence of seasonal hydrology, the point was determined to be wetland. The area surrounding the observation point was then investigated to determine the upland boundary via the same methodology. The delineation was then confirmed by placing flags at the edge of the wetland and upland boundary.

¹Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," TR y-87-1, US Waterways Experiment Station, Vicksburg, Miss.

Figure 1 Location Map

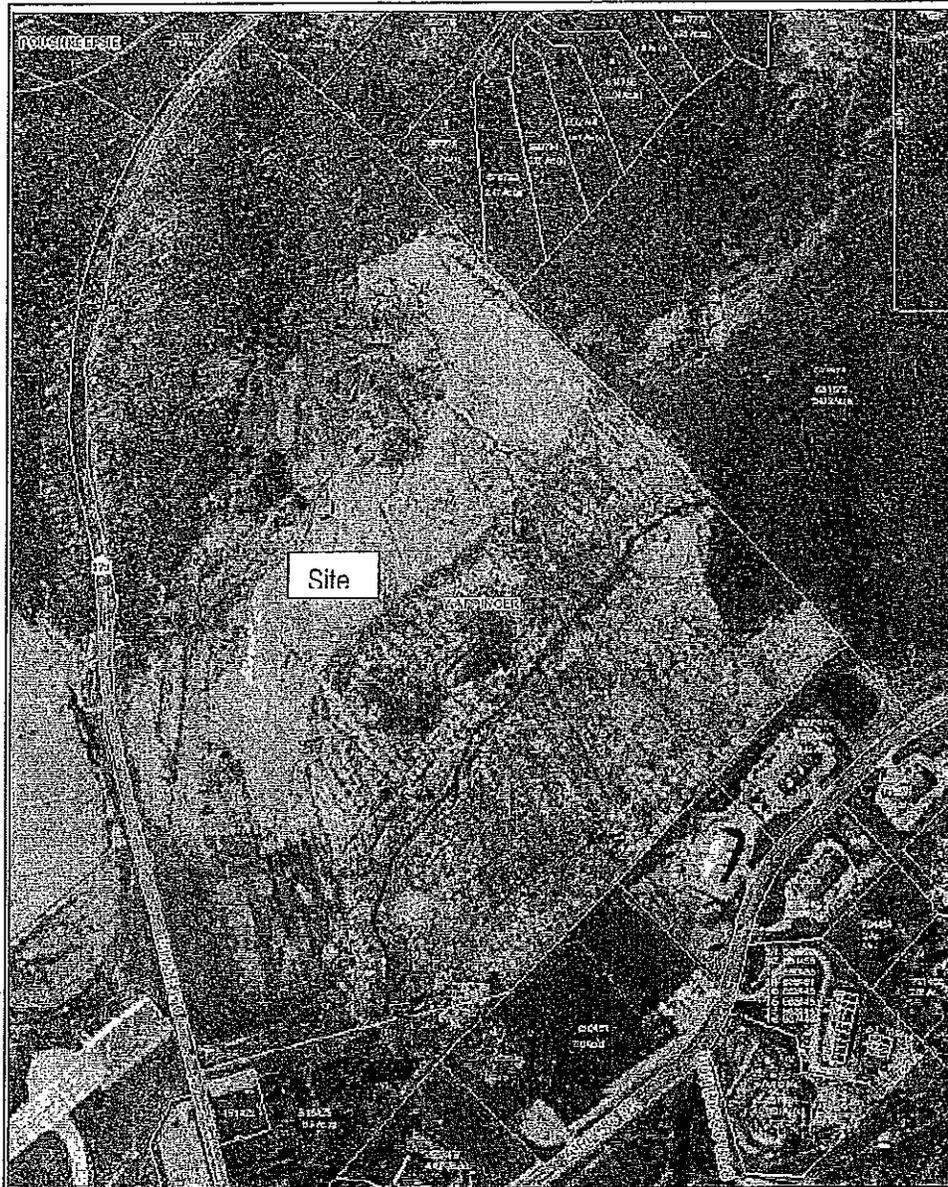


Figure 2 Soils Map

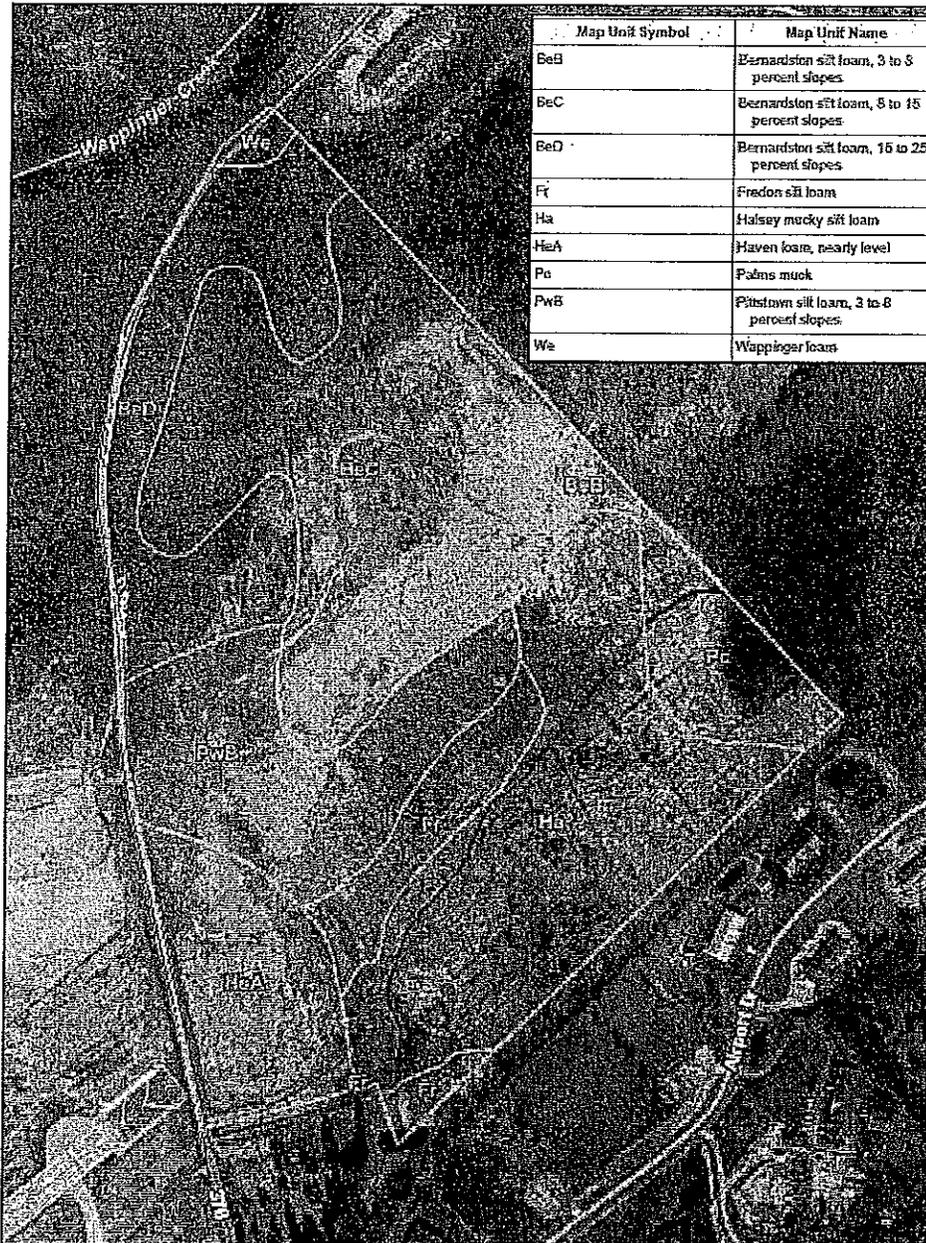
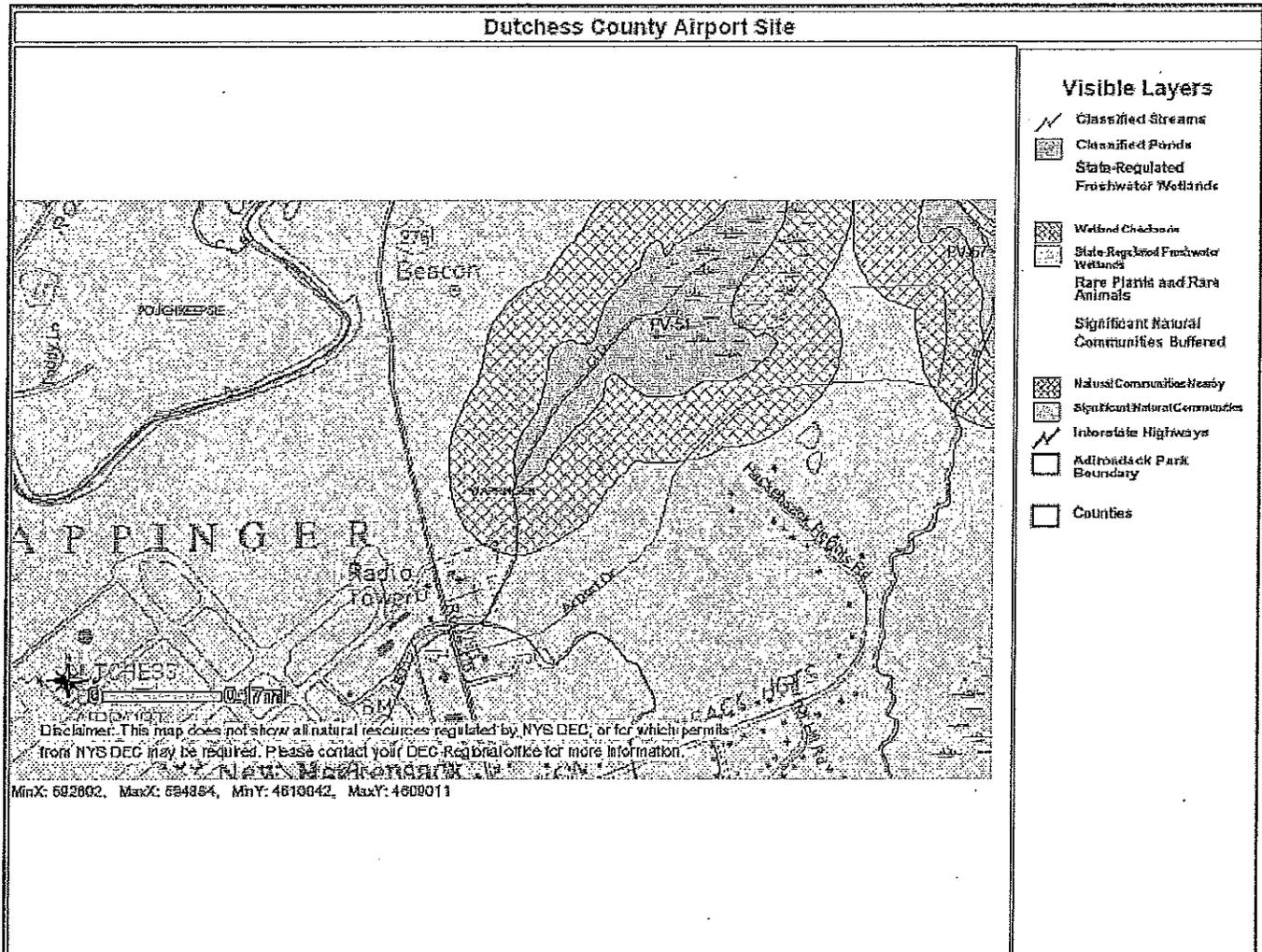


Figure 3 NYSDEC Map



2.0 EXISTING CONDITIONS/SITE CHARACTERISTICS

The project area and vicinity consists of the following:

1. Mowed Field

The area of the proposed solar array is generally mowed/maintained field dominated by grass and other field species.

2. Wet Meadow

The wet meadow is a portion of NYSDEC regulated wetland PV-51 which is also regulated by the USACE and Town of Wappinger. This wetland has a regulated 100 foot buffer or Adjacent Area.

3.0 SUMMARY

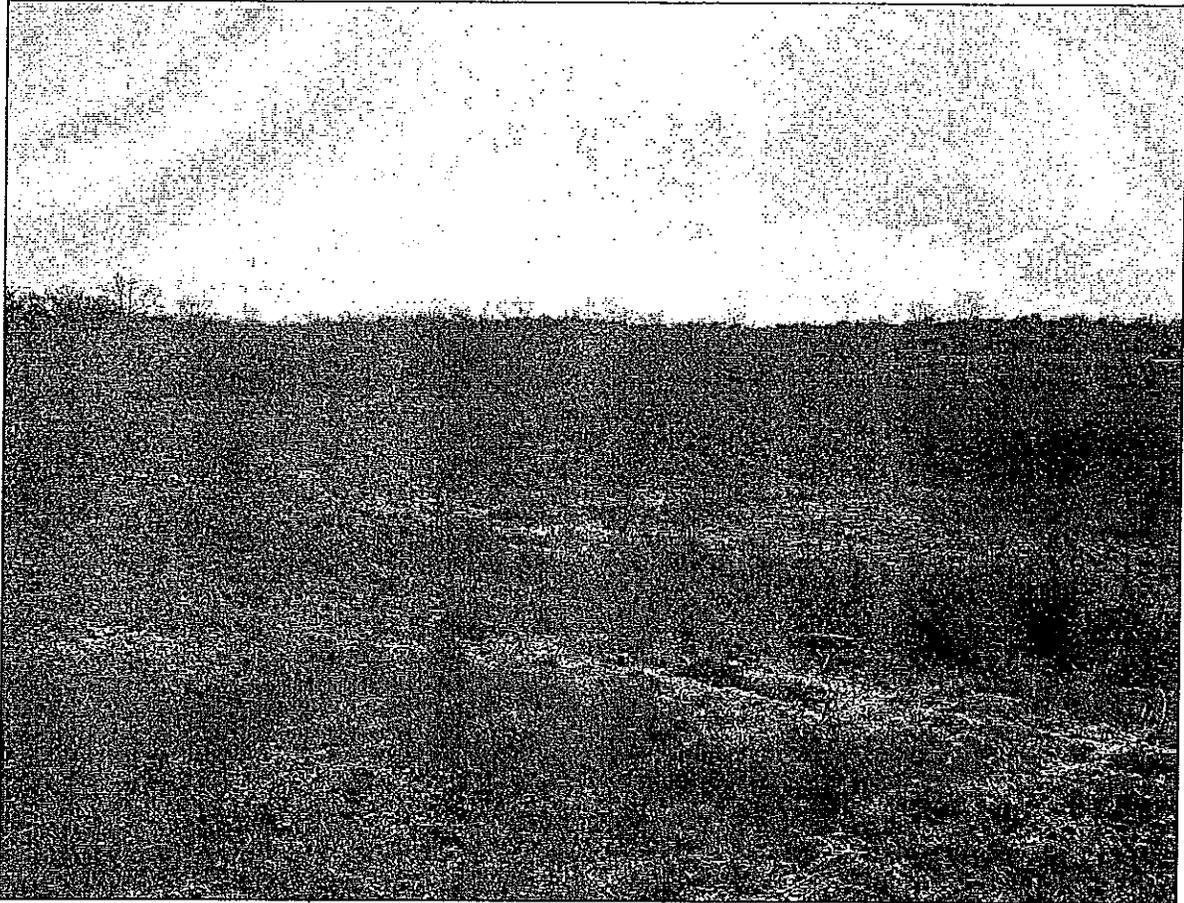
The wetland delineated at the site meets the criteria to be defined as Federal, State, and Town wetland. No impacts are proposed to wetlands for the solar array.

4.0 PHOTOGRAPHS

Typical field habitat in area of proposed solar array



Wetland in background



Typical field habitat in area of proposed solar array - wetland in background

