Environmental Assessment

Moran Solar Project
Prince Edward County, Virginia



U.S. Department of Agriculture Rural Utilities Service (RUS)

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ACRONYMS

| AC | Alternating Current |
|--------|--|
| APE | Area of Potential Effect |
| ВМР | Best Management Practice |
| DC | Direct Current |
| DCR | Department of Conservation and Recreation |
| DHR | Department of Historic Resources |
| DNR | Department of Natural Resources |
| E&S | Erosion & Sediment |
| EA | Environmental Assessment |
| EJ | Environmental Justice |
| EPA | Environmental Protection Agency |
| FAA | Federal Aviation Administration |
| FEMA | Federal Emergency Management Agency |
| FIRM | Flood Insurance Rate Map |
| VaFWIS | Virginia Fish and Wildlife Information Service |
| IPaC | Information for Planning and Consultation (USFWS Only) |
| LOD | Limits of Disturbance |
| MBTA | Migratory Bird Treaty Act |
| MW | Mega-Watt |
| NEPA | National Environmental Policy Act |
| NLEB | Northern Long-eared Bat |
| NRCS | Natural Resources Conservation Service |
| NWI | National Wetlands Inventory |
| OEE | Office of Environment and Energy |
| PESA | Phase I Environmental Site Assessment |
| RUS | Rural Utilities Service |
| SHPO | State Historic Preservation Offices |
| SWPPP | Stormwater Pollution Prevention Plan |
| TDAT | Tribal Directory Assessment Tool |
| USACE | United States Army Corps of Engineers |
| USDA | United States Department of Agriculture |
| USFWS | United States Fish and Wildlife Service |
| USGS | United States Geological Survey |
| VADGIF | Virginia Department of Gameland and Inland Fisheries |
| VCRIS | Virginia Cultural Resources Information System |
| VDEQ | Virginia Department of Environmental Quality |
| VPDES | Virginia Pollutant Discharge Elimination System |
| WNS | White-nose syndrome |

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1.0 PURPOSE AND NEED

1.1 Project Description

This project involves the construction of an approximate 18.8-acre solar farm (16.1 acre operation) on a portion of a larger 99.63 acre property, which includes the laydown areas for construction as well as the temporary access road, and concrete washout area. The site is located at 1867 Piney Grove Road, Rice, Prince Edward County, Virginia. Of the larger parent parcel, Holocene Clean Energy (Holocene) on behalf of HCE Moran Solar, LLC proposes to lease 18.8 acres of land for the solar project (Reference Appendix I, Figures 1 through 3). Project components include the installation of photovoltaic panel arrays ground-mounted on single-axis tracking solar racking equipment with a maximum height of 15 feet from the ground surface. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management Best Management Practices (BMPs) (Reference Appendix II for proposed site plan). The solar panel array itself will include approximately 61 rows of panels and is anticipated to generate approximately 3.8 MW of DC power and 3 MW AC power. Interconnection to the electrical grid will be completed by the electrical company sometime in the future as part of a second, separate project and will undergo required reviews at that time. Existing infrastructure (power poles, utility lines, etc.) is located in proximity to the site and the planned interconnection point is to these existing power poles located immediately adjacent to the access road entering the site. This area is depicted on the enclosed maps and site plans for clarity and will include a small grassy area adjacent to Piney Grove Road next to the proposed concrete washout area and within or immediately next to the depicted limits of disturbance for the solar project itself. The future interconnection will use an existing power pole in this location next to the access road and will only involve the running of a subsurface power line approximately 100' from the inverter location to the existing power pole. No special equipment is needed and typical subsurface trenching will be the likely method employed by the local utility when this occurs and is almost entirely within the proposed limits of disturbances (LODs) for the project.

The proposed project would operate seven days per week during daylight hours. Operational activities would consist of monitoring system operation to track status, performance, and diagnostics. Operation activities would include meter reading and production reporting, along with updating O&M manuals. The project will be fenced to prevent access by the public to ensure public safety and protect equipment from theft and vandalism.

The solar field would be inspected once annually for condition of the arrays, inverters, and controls. Damaged or under performing solar modules would be repaired and replaced as required and as flagged by the monitoring system. No on-site lighting will be present after construction.

The disturbance of land will be limited to 18.8 acres (leased area) during construction which includes the laydown areas for construction as well as the temporary access road, and concrete washout areas. The site is currently an open field with some scrubby areas; tree clearing is not proposed. Three existing structures (a fire damaged residential dwelling and two out-of-use agricultural outbuildings) are located onsite and proposed for demolition. The final project area will include 16.1 fenced acres with the remaining acreage being associated with roadway set backs.

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1.2 Purpose and Need

USDA, Rural Development is a mission area that includes three federal agencies – Rural Business-Cooperative Service, Rural Housing Service, and Rural Utilities Service (RUS). The agencies have in excess of 50 programs that provide financial assistance and a variety of technical and educational assistance to eligible rural and tribal populations, eligible communities, individuals, cooperatives, and other entities with a goal of improving the quality of life, sustainability, infrastructure, economic opportunity, development, and security in rural America. Financial assistance can include direct loans, guaranteed loans, and grants in order to accomplish program objectives. This proposed project is seeking federal financial assistance from the RUS.

The purpose of this project is to provide clean renewable energy to the existing electrical grid for the purposes of bettering the natural and human environment. The proposed project will help limit greenhouse gas emissions through the generation of solar energy while providing electricity to residential and commercial customers connected to the existing electrical grid. The Commonwealth of Virginia has recently established ambitious renewable energy goals across the Commonwealth and those goals can only be met through cooperation with private projects. As a result, electrical utility providers, which are regulated by the Commonwealth, have been requesting development of renewable energy projects from private entities to help meet or exceed the goal set by the state government. Holocene has therefore partnered with the local electrical utility provider to construct the project and allow its future interconnection to the utility grid, therefore making Virginia's energy use more sustainable and in line with future goals and market forces.

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2.0 ALTERNATIVES EVALUATED INCLUDING THE PROPOSED ACTION

2.1 Proposed Action

This project involves the construction of an approximate 18.8-acre solar farm (16.1-acre operational) on a portion of a larger 99.63 acre property located at 1867 Piney Grove Road, Rice, Prince Edward County, Virginia. As part of the development, three existing derelict structures located onsite are proposed for demolition. Project components include the installation of photovoltaic panel arrays ground-mounted on single-axis tracking solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater BMPs. Proposed grading will be minimized through the use of driven piles for the mounting poles which will therefore reduce excavation and earth disturbance. The project has been sited to avoid floodplains, streams, minimize clearing, and is situated within close proximity to existing utility infrastructure to allow easy future interconnection to the existing grid. It should be noted that the future interconnection to the grid is not a part of the proposed action as that connection will be conducted by the local utility using a separate project and funding source. The proposed action described herein only involves the construction of the arrays and supporting infrastructure.

2.2 Other Alternatives Evaluated

Holocene considered its sites through a process of elimination which involved a wide area search, which was then further refined based on a set of established criteria. Specifically, a substation level review of parcels within a certain radius from each existing substation associated with the existing grid was completed and isolated parcels that had workable topography, few streams or wetlands (based on database and GIS information), no floodplain, and sufficient acreage were selected. The results were candidate sites, which were all contacted via letter and phone by Holocene to evaluate existing landowner openness to leasing a set of acres within the identified parameters of topography and other environmental factors. Although multiple additional sites met these parameters, they were ruled out because of landowner disapproval of entering into a lease.

2.3 No Action Alternative

The "no action alternative" would not provide benefits to the human environment nor provide a clean renewable energy alternative to other energy sources. The overall objective of the project is to provide clean energy for the existing grid to reduce the environmental impact of fossil fuel emissions. The No Action alternative would not realize this environmental benefit. A permanent conversion of land will occur for the proposed action, however, no significant adverse impacts are expected to the environment as a result of the proposed action.

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3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

3.1 Land Use

3.1.1 General

The subject property is currently zoned A-1; agricultural use. A total of 18.8 acres are proposed to be leased for the proposed solar arrays and the remainder of the larger 99.63 acre parcel will remain open scrub land. The current land use is scrub-shrub land and may have been farmed or harvested for timber in the past. Three existing structures, a fire damaged residential dwelling and two outbuildings, located onsite and proposed for demolition. In general, the project is located within a rural residential and agricultural area of Rice, Virginia. No known master plans or other development plans are known to exist for this part of the County and the site and surrounding area has been rural wooded land since at least the late 1950s. Portions of the larger parent parcel were previously timbered. The proposed project has undergone all applicable local site plan reviews and approvals.

3.1.2 Important Farmland

Affected Environment

The site is located in a rural area of Rice, Prince Edward County, Virginia and is currently scrub land (Reference Appendix III for site photographs). According to the USDA National Cooperative Soil Survey website, the site is located within an area designated as farmland of statewide importance or as prime farmland. This designation is based on the mapped soil type at the site and surrounding areas.

Environmental Consequences

As a result of the presence of farmland and the proposed conversion to a non-agricultural use, the AD-1006 Farmland Conversion Impact Rating form was completed and submitted to the US Department of Agriculture Natural Resources Conservation Service (NRCS) local field office. The values from Sections V and VI for the project site does not equal or exceed 160 points (the site scored 127) and is not precluded from conversion of important farmland to non-agriculture uses. Reference Appendix IV for the AD-1006 form, completed in coordination with the local NRCS office and returned and verified by the NRCS on June 26, 2020.

3.1.3 Formally Classified Land

Affected Environment

Formally Classified Lands (National Parks, Monuments, Landmarks, Wildlife Refuges, etc.) are not located within or near the project area (Reference Appendix IV).

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Environmental Consequences

Based on our review of the proposed project and the U.S. National Map, no environmental consequences to formally classified land appear to be associated with the project. Additionally, a response was received from the Virginia Outdoors Foundation (VOF) that stated "As of 4 January 2021, there are not any existing nor proposed VOF open-space easements in the immediate vicinity of the project." A copy of this response is included in Appendix IV.

3.2 Floodplains

Affected Environment

We reviewed the Flood Insurance Rate Map (FIRM) available from the Federal Emergency Management Agency (FEMA). According to Map Number 51147C0250C dated October 2, 2009, the project area is located in Zone X which is determined to be outside the 500 year floodplain (Reference Appendix V). This was one of the initial site selection criteria (avoidance of floodplains) and all appropriate and required stormwater quantity controls will be established so that no off-site flooding will occur.

Environmental Consequences

Based on our review of the floodplain maps, no environmental consequences to floodplains associated with the project are expected and additional analysis of floodplain impacts is not necessary.

3.3 Wetlands

Affected Environment

According to the National Wetland Inventory (NWI) Map available from the U.S. Fish and Wildlife Service (USFWS) no wetlands were identified on the project site (Reference Appendix VI). The absence of wetlands was another initial site selection criteria. However, based on the wetland delineation, procured by Holocene, six jurisdictional wetland areas totaling 0.23-acres and two jurisdictional streams totaling 1,010-linear feet were identified and delineated within the study area. The wetland delineation was reviewed and confirmed by the U.S. Army Corps of Engineers (USACE) in a Jurisdictional Determination issued on November 25, 2019 (reference Appendix VI).

Environmental Consequences

Following completion of the wetland delineation and confirmation of the wetland and stream boundaries by the USACE, Holocene adjusted the project boundary to minimize wetland impacts as much as possible. Early design proposals included potential solar panels in or close to the wetland area present to the east of the proposed panels, and that lease area was contracted to avoid impact to those areas. Portions of the small and isolated wetlands identified in the central and western portions of the site cannot be completely avoided given their location and position in the low lying portions of the site where stormwater is required to be routed to achieve gravity fall. As can be seen in the attached site plans, the small (0.01 acre) emergent wetland in the western portion of the site

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is proposed to be impacted by placing piles from the proposed panels, which is not considered an impact by the USACE as no fill is being placed where piles are proposed. As such, this wetland will likely remain functional, but has been included in the impact calculations for conservative purposes. The 0.05 acre emergent wetland near the southern property border is proposed to be filled as part of installation of a stormwater BMP. Given the topographical position, alternative placements of the BMP was not possible to avoid this impact; a BMP is required in this low-lying portion of the site to meet local stormwater management regulations. While these isolated impacts cannot be avoided, 75% of the wetlands identified onsite as well as 100% of stream channels have been completely avoided.

The projects have been discussed with the USACE and have been determined to qualify for the Nationwide Permit 51 for Land Based Renewable Energy Projects. That permit requires the engineers to design the project so that wetland and stream impacts are avoided and minimized to the maximum extent practicable, which has been demonstrated above. The permit also requires mitigation when impacts exceed 0.1 acre, which is not the case for the proposed project. Impacts below that threshold are considered minimal such that mitigation is not required. Nonetheless, the proposed landscape buffer plantings and water quality improvements to downstream areas which will likely result from the proposed stormwater management measures (decreased erosion, sedimentation, lower nutrient additions, and increased habitat/vegetative cover from the plantings) will result in a net increase in ecosystem benefits to the environment. The assumed increase in ecosystem benefits is due to the requirement for no net increase in stormwater quantity post-construction to prevent erosion and no degradation in stormwater quality in stormwater regulations. The buffer plantings will also provide increased habitat heterogeneity and variability. Thus, these benefits are qualitative in nature. In addition, Holocene held a neighborhood meeting and 2 separate public meetings for the project to provide the public and neighbors with the opportunity to comment on the proposed project and no comments opposing the project were received. As a result, the project has complied with the requirements of Executive Order 11990 as well as permitting requirements of local, state, and federal agencies. A copy of the wetland delineation map and USACE confirmation is included in Appendix VI.

3.4 Water Resources

Affected Environment

The site is not located in an area identified by the USEPA as a sole source aquifer (reference Appendix VII) and there are no Wild or Scenic Rivers on or near the project site (Reference Appendix IV). According to the USGS Topographic Map (Appendix I, Figure 2), the nearest surface water body is an unnamed tributary to Miller Lake located approximately 630 feet east of the site. Six jurisdictional wetland areas totaling 0.23-acres and two jurisdictional streams totaling 1,010-linear feet were identified and delineated within the study area by ECS (see Section 3.3). An erosion and sediment control plan has been prepared and will be implemented in compliance with Prince Edward County and Virginia Department of Environmental Quality (DEQ) requirements. The site is not located within a wellhead protection area and is not subject to other groundwater protection requirements.

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Environmental Consequences

Based on our review, no impacts to water quality are expected as a result of the proposed work. Solar panels are not considered impermeable surfaces and their impact is considered to be minimal to the stormwater management on the site. The proposed stormwater management controls during and post-construction will be designed to meet or exceed local and state regulations and will therefore be protective of local water quality. Because of local topography, stormwater BMPs are required post-construction to limit offsite transport of stormwater runoff and maintain existing stormwater quality. Because of the low impact solar panels have on stormwater runoff and the absence of impermeable surface proposed, offsite stormwater impacts would likely not occur as a result of the project, but are required according to local and state regulations. All required design reviews and permits will be or have been obtained prior to construction as part of the plan review and approval process. As can be seen in the attached site plans, adequate and appropriate erosion and sediment controls during construction will also be a requirement of the project and the required land disturbance permit, and are expected to include silt fences, gravel construction entrances, and other best management practices required by the local authority. During land disturbance activities, routine inspections will be required by a properly certified Responsible Land Disturber to ensure Erosion & Sediment (E&S) controls are adequate and functioning properly and that the project's Stormwater Pollution Prevention Plan does not require modification. The project will also not result in any new effluent discharges. No direct or indirect impacts to waters, either onsite or offsite, are proposed.

3.5 Coastal Resources

<u>Affected Environment</u>

Coastal barrier resources are not located within the project area as Prince Edward County is located outside of Virginia's Coastal Zone (Appendix VIII).

Environmental Consequences

Based on our review of the proposed work, no environmental consequences to coastal resources appear to be associated with the project and the subject site is not located within an area subject to the Coastal Zone Management Act.

3.6 Biological Resources

3.6.1 Fish, Wildlife, and Vegetation Resources

Affected Environment

The subject site is an existing scrub/shrub land that was formerly managed agricultural land. The land appears to have been managed agricultural land from at least 1959 until 1991. Between 1991 and 2012 the property was managed as timberland and appears to have been cleared by 2016. The open and fallow pasture land provides minimal habitat for wildlife. No surface waters are located within the project limits other than the perennial stream in the eastern portion of the site. Vegetation within the project area consists of grasses and small shrubs and tree clearing is not proposed. Clearing will likely be conducted by mechanical methods, but the contractor will clearly demarcate

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clearing limits in the field prior to start. In general, the past farmed and managed nature of the subject site, including the access road corridor, results in minimal wildlife habitat and vegetative resources being present on the site.

Environmental Consequences

Significant adverse impacts to fish, wildlife, or vegetation is not proposed as part of the project. Streams are not proposed for impact and all appropriate E&S and stormwater controls will be implemented to prevent offsite impacts to the aquatic system. The project site is former timberland and is currently fallow and impacts to wildlife habitat or resources will not occur. Similarly, significant vegetation communities will not be impacted as the site is currently a fallow scrub/shrub field. Areas of the field which are now scrub brush will be converted to solar panel arrays, but the existing scrubland provides minimal ecological functions or values and adverse impact is not expected.

3.6.2 Listed Threatened and Endangered Species

Affected Environment

ECS conducted a review of the USFWS Information for Planning and Consultation (IPaC) database to evaluate the documented occurrences or potential habitat for federally-listed species within the project boundaries (see Appendix IX). According to the IPaC database, one species is listed as having potential to occur at the project site:

Federally-threatened Northern long-eared bat (NLEB) (Myotis septentrionalis) - According to
the USFWS' Species Fact Sheet, the male bat prefers large caves and abandoned mines
during the winter and summer. Female bats prefer caves and mines during the winter and
maternity colonies are located in riparian forests along streams. It is also known that this bat
species generally roosts in trees greater than 3 inches dbh that are found on south-facing
slopes and have exfoliating bark or snags during the summer months.

ECS conducted a search of the Virginia Department of Game and Inland Fisheries (VADGIF) Fish and Wildlife Information Service (FWIS) threatened and endangered species database to evaluate documented occurrences of federally and/or state listed species within a two-mile radius of the project site (see Appendix IX). According to the FWIS, no species are listed as having been documented within this radius.

Environmental Consequences

The USFWS issued a Final 4(d) rule under the Endangered Species Act (ESA) effective February 16, 2016. The rule specified that for areas of the country impacted by white-nose syndrome (WNS), incidental take is prohibited under the following circumstances:

- 1. If it occurs within a hibernacula.
- 2. If it results from tree removal activities and,
 - The activity occurs within ¼-mile of a known, occupied hibernacula; or,
 - The activity cuts or destroys a known, occupied maternity roost tree or other trees within a 150 foot radius from the maternity roost tree during the pup season from June 1 through July 31.

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Because of the lack of existing preferred habitat at the subject site and no tree clearing, ECS believes no adverse impacts to habitat or the species will occur for the species listed. A project review request package was prepared based on this information and is attached in Appendix IX. The project review request package provided documentation that the project will not adversely impact protected species and was submitted to the USFWS on June 25, 2020 for their review and concurrence. That agency has 30 days to review and comment on the conclusions therein if they disagree with the findings. No response was received from USFWS which indicates they do not disagree with the Not Likely to Adversely Effect finding for the NLEB and no additional surveys or coordination with the USFWS is necessary. An updated IPaC Official Species List was run on December 23, 2020 to verify no new species were listed and that updated search confirmed no new listings for the site are present on the USFWS database. A follow up letter was also sent to the USFWS to confirm that agency did not have any additional requirements or concerns with the project and a response has yet to be received. We conclude that section 7 consultation under the Endangered Species Act is complete.

3.6.3 Migratory Bird Treaty Act

Affected Environment

The project site consists of a fallow field with some forested areas in the southern portion of the site. Database information concerning the presence of protected species was reviewed from the USFWS (IPaC), VADGIF (FWIS), and the VA Department of Natural Resources (DNR) Natural Heritage Database, all of which do not indicate the presence of protected species, migratory birds, or their habitat being present on the subject site (Reference Appendix IX).

Environmental Consequences

Impacts to protected migratory bird species are not anticipated as none are known to be present at the site. Moreover, the proposed project will entail the construction of ground mounted solar arrays, which will pose little to no risk to migratory birds and the subject site consists of fallow field which provides very marginal habitat for protected species. Information obtained from the Audubon Society indicate that utility scale solar projects such as the proposed project are beneficial to native songbirds as they promote native plant species growth and aid in foraging for these species (https://www.audubon.org/news/why-solar-power-good-birds). Native plant species will be planted around the panels to promote the native species growth, as well as provide E&S control around the panel racks. The panels proposed are not the mirror reflective type that have caused bird mortality in mainly western states nor would this project cause population level impacts because of its small size. The solar panels proposed for use at this facility are designed to absorb the sunlight (photovoltaic panels) versus reflect the light; therefore a reflective glare and the phenomenon referred to as the "lake effect" is not a concern for this facility. Additionally, the photovoltaic panel type, the type proposed for this facility, are the preferred type of panel by the Audubon Society. Construction for the proposed project is anticipated to start in the winter, which is well outside the nesting season for birds in this location, further minimizing the potential for adverse impacts to migratory bird species. In summary, adverse impacts to migratory birds are not anticipated and special precautions should not be imposed by the MBTA as take of these species is not expected based on the project.

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3.6.4 Invasive Species

Affected Environment

The proposed project site includes scrub and fallow land and invasive plant, noxious weeds, or other invasive species are not known to exist within the project site. Some relatively common invasive plants may be present along the fringes of the project area (Japanese honeysuckle or Multiflora rose), but the subject site in general does not appear to have an abundance of invasive species and consists primarily of early successional native growth.

Environmental Consequences

The proposed project does not have the potential to increase the spread of invasive species. Solar panels require vegetation to be maintained below the panel surface to operate efficiently and plant life will not be expected to spread following construction. The lack of significant earthwork, no fill material being imported onto the site, and lack of aquatic habitats within the project site result in a minimal potential for establishment of invasive species as a result of the proposed project.

3.7 Historic and Cultural Properties

Affected Environment

The site is located in a rural area of Rice, Prince Edward County, Virginia and is currently undeveloped scrub-shrub land. In order to evaluate the project's potential to impact cultural or historic resources, the direct Area of Potential Effect (APE) for the project was established as the 18.8 acre leased area. An additional indirect APE was established approximately 1/4 mile from the site to account for potential visual impacts. Along the northern and northeastern border, the 1/4 mile indirect APE was reduced to follow topography and vegetative screening boundaries. It should be noted that this indirect APE is likely over-conservative given the vegetative screening which will be provided or existing forest cover, which limits sight lines. According to the Virginia Department of Historic Resources (DHR) Virginia Cultural Resource Information System (VCRIS), no historic or cultural resources are mapped within the project area or area of potential effect (APE), both direct or indirect. A map showing the APE and VCRIS search results are provided in Appendix X.

Environmental Consequences

ECS submitted the results of the Virginia Cultural Resources Information System (VCRIS) database search to the State Historic Preservation Office (SHPO) for their concurrence, who responded and requested a Phase I archaeological and architectural study be conducted to verify the recommended no adverse effect determination. Dutton and Associates completed the requested evaluation in October 2020 and concluded that the project as proposed would have no adverse impact on historic resources and did not recommend additional investigation. Dutton and Associates' evaluation included the three existing structures located onsite and proposed for demolition. That evaluation was submitted to the SHPO for review and concurrence was received from DHR, dated December 16, 2020. A copy of this letter is provided in Appendix X. DHR indicated that, after consideration of all of the comments and documentation received related to potential impacts to historic property,

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a recommended finding of *no adverse effect* is appropriate for the project and this should fulfill the Federal Agency's Section 106 obligations. The USDA submitted a finding of no adverse effect to DHR on January 4th.

Tribal consultation was determined through the use the online Tribal Directory Assessment Tool (TDAT) developed by the Office of Environment and Energy (OEE) to help users identify tribal contact information to assist users with initiating Section 106 consultation under the National Historic Preservation Act (54 U.S.C. § 300101 et seq.) On June 16, 2020 ECS submitted a finding of no historic properties affected in accordance with 36 CFR § 800.4(d)(1) and supporting documentation for review and consideration to the Delaware and Monacan Indian Nations. A concurrence or objection was requested to be provided within 30 days of submittal to each tribal nation. The Delaware Nation Tribal Historic Preservation Officer replied to the request stating no objection to the project and the Monacan Nation responded they do not wish to actively consult on the project. Both tribes did indicate should archaeological sites, artifacts, human remains or other unanticipated native cultural remains be encountered or if the scope of the project changes, all construction and ground disturbing activities should immediately be halted until appropriate state agencies and the tribes be notified and proper archaeological assessment can be made. Tribal consultation information is provided in Appendix X.

3.8 Aesthetics

Affected Environment

The site is currently fallow scrub land and is not located within a visually sensitive area such as a wilderness area, park, scenic area, etc. Three derelict structures (former farm sheds) are present in the area proposed for the solar arrays and proposed for removal. Existing forest cover is present to the northeast, east, and south of the site and the proposed site plan calls for additional vegetation screening along the north and western portions of the site to eliminate sight lines from those directions, thereby reducing or eliminating visibility from public thoroughfares.

Environmental Consequences

While the proposed developments will alter the landscape of the area from scrub land, significant visual impacts on the surrounding area are not expected, especially in consideration of the limited height (14 feet) of the solar arrays and the surrounding wooded land and vegetative screening. Additionally, the removal of the derelict structures during the development of the solar project will help improve the overall aesthetics as these structures are rundown and in disrepair. The removal will include the remains of a fire destroyed house and two ivy covered farm structures and will also improve the natural aesthetics. Photographs of the structures are provided in Appendix III. The site is also not located in a designated scenic or visually sensitive area. As such, adverse impacts to aesthetics are not expected.

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3.9 Air Quality

Affected Environment

According to the National Ambient Air Quality Standards, the site is not located in a non-attainment zone or in a maintenance zone (Reference Appendix XI). As such, no specific air quality standards are imposed on the project site. No fixed emission sources are proposed nor are construction emissions expected to be above *de minimis* levels given the short duration of construction.

Environmental Consequences

We expect temporary and transient increases in air pollution as a result of construction activities associated with the project. These sources may include dust and emissions from construction equipment and vehicles. We expect these increases to be sporadic and minimal. Fugitive dust will be kept to a minimum as will be required by the Stormwater Pollution Prevention Plan (SWPPP) and land disturbance permit. Measures to control dust may include application of water to suppress dust, and washing down construction vehicles and paved roadways immediately adjacent to construction areas (9VAC5-50-60 et. seq.) No sources of particulate or volatile pollutant emissions are proposed as part of the construction project (i.e. large boilers or generators). While transient construction vehicles will be used during the construction of the project, emissions from those vehicles will be short in duration and minimal through the use of low sulfur fuels. Therefore, we anticipate that the construction of the project will have an insignificant effect on the air quality within the immediate site vicinity and the County as a whole and is considered de minimis given the proposed use and duration of construction activities. Best management practices will be utilized to reduce or eliminate construction vehicle emissions or dust generation for the short term during construction. Long term air quality impacts are not expected; rather, given that the project involves implementing renewable energy generation, overall emissions would be expected to decrease as a result of lower fossil fuel demands for the existing power grid.

3.10 Socio-Economic/Environmental Justice

As part of the Agency's mission to support sound development of rural communities and provide economic opportunities for rural residents, consideration is made for either the positive or negative broader socioeconomic status of the areas being served, often focusing on population or income changes, or effects of local institutions such as schools, health care, or housing. Other factors for consideration must also be included regarding tax revenues, community cohesion or growth, property values, displacement of people or land, transportation, health and public safety, and public services or facilities.

Applicants are required to determine if their proposal has or may have a disproportionately high and adverse human health or environmental effect on minority or low-income populations under E.O. 12898 Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations and DR 5600-2 Environmental Justice.

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Affected Environment

A review of demographic information was performed by obtaining information from the U.S. Census Bureau. Year 2010 demographics data were obtained for Prince Edward County, Virginia (Reference Appendix XII). The census information indicates that approximately 63.4% of the population is white, approximately 32.8% of the population is black/African American, with the remaining 3.8% being Hispanic, American Indian, Asian, or other minorities. The population growth trend for the County is reported as a loss of 2.4% between April, 2010 and July, 2019.

As the site is currently undeveloped scrubland and the development of the solar site will not change how the surrounding properties are used or traveled on, the proposal should not change people's lives beyond the immediate provision of providing electricity to the area. Construction will require the use of local contractors to an extent, but that employment will be short term. The surrounding area is rural residential and the proposed project will not change the nature or character of the landscape as a vast majority of the farmland will remain unaltered. No residents will be displaced by the project.

According to EPA's Environmental Justice screening tool (Reference Appendix XII), the site is located in an area with 45% of the population identified as low income, almost double the state average, and 33% minority population, slightly below the state average. The proposed project will involve new construction of a solar farm on unoccupied, agricultural land and will not displace existing residents or adversely impact the environment or create injustice. Moreover, the EPA EJ Screen report and the Phase I ESA completed on the property did not identify environmental issues in the proximity of the property which would be expected to pose an environmental justice concern. Moreover, the proposed solar project will not impact local public services, roadways, institutions, schools, health care services, or housing. The local government would likely see an increase in tax revenue as a result of the project, the size of which would not be expected to be significant. Property values would also not be expected to be positively or negatively impacted, nor would any other public safety or service be impacted beyond the direct generation of clean energy.

Environmental Consequences

The construction of the solar farm is not expected to have negative social or economic environmental consequences on the surrounding community. Conversely, the proposed project is intended to provide clean renewable energy to the existing electrical grid for the purposes of bettering the natural and human environment. The proposed project will help limit greenhouse gas emissions through the generation of solar energy while providing electricity to residential and commercial customers connected to the existing electrical grid. The public has been and will be provided opportunities to comment or participate in the planning for the project through the local site plan review process and no known objections have been raised. The project is not considered controversial or environmentally damaging and will not impact businesses, residences, or result in any other adverse social or economic impacts to local residents. No adverse environmental conditions were identified at the site or surrounding area which would pose a disproportionate environmental justice concern.

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3.11 Miscellaneous Issues

3.11.1 Noise

Affected Environment

The ambient noise at the site is typical of the noise expected in a rural/agricultural area. The vicinity of the project site is considered rural. Based on aerial photography, the nearest residential property to the proposed project site is located approximately 290 feet to the south. As a result, potential noise receptors are limited at the project site.

Environmental Consequences

Construction activities will increase some noise levels initially from construction equipment; however, these activities are scheduled to be performed during normal working hours for a short duration during the construction of the project.

The level of noise produced by the solar farm after construction is not expected to exceed current ambient noise levels in the area and will be negligible outside of the fenced area. No specialized equipment that would generate loud noises is proposed to be used or installed. Also, the noise that a solar facility produces only occurs when the equipment is in use and when the panels and inverters are resting at night there is no noise. No long term noise pollution is expected as a result of the proposed project.

BMPs will be employed to reduce or eliminate noise pollution during construction efforts, but given the short duration and lack of nearby sensitive noise receptors, impacts are not expected.

3.11.2 Transportation

3.11.2.1 Federal Aviation Administration

<u>Affected Environment</u>

Based on the NEPA Assist Mapping tool and the Federal Aviation Administration (FAA), the Site is not located within 20,000 feet of an airport (Reference Appendix I, Figure 4) and site developments are proposed to be less then 200 feet above the ground surface. As such, no official notice must be filed with the FAA.

Environmental Consequences

Based on our review of the proposed project, no environmental consequences to air traffic would be associated with the project.

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3.11.2.2 Traffic

Affected Environment

The proposed project anticipates a negligible increase in traffic to the site as the facility generally operates autonomously. Periodic (annual) and as-needed maintenance will be necessary, but these will be very sporadic and will not increase local traffic volumes or noise levels. In addition, no transportation of hazardous or other substances to or from the site are proposed during or after construction.

The construction activities do not propose to impact traffic patterns as the work will not be performed within the roadways. Supply materials will be off loaded at the site at the beginning of the project to reduce truck volume and duration. This will only cause a temporary delay in traffic on the site and will not affect traffic on Piney Grove Road given the low existing traffic and volume on that roadway. In total, the construction of the project is expected to take 22 weeks, although the material delivery will occur only at the very start of the project and no obstruction to traffic will occur during construction. The access road to the site, located on private property, will be upgraded to accommodate the construction and maintenance traffic to the site. A traffic study is not required by Prince Edward County and was not completed as part of the assessment of the site.

Environmental Consequences

The existing roadway and access road are considered adequate to accommodate the anticipated construction traffic without disrupting local traffic flow or patterns. The solar array is designed to operate with minimal maintenance requirements and post construction traffic will also not adversely impact the site or surrounding area. No traffic impacts are expected and additional evaluation or traffic studies are not required.

3.12 Human Health and Safety

3.12.1 Electromagnetic Fields and Interference

Affected Environment

Because the project involves construction of a solar panel array and generation of electrical energy, the potential exists for Electromagnetic Fields (EMFs) to be generated. Studies conducted on the EMF generation of commercial solar fields have indicated that EMF generation at these commercial scale facilities is below acceptable exposure levels with the highest EMF generation measured near inverters and transformer units. The abstract of one such study, (Tell, 2015), stated:

"A solar facility converts direct current generated by the solar panels to three-phase 60-Hz power that is fed to the grid. This conversion involves sequential processing of the direct current through an inverter that produces low-voltage three-phase power, which is stepped up to distribution voltage (~12 kV) through a transformer. This study characterized magnetic and electric fields between the frequencies of 0 Hz and 3 GHz at two facilities operated by the Southern California Edison Company in Porterville, CA and San Bernardino, CA. Static

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magnetic fields were very small compared to exposure limits established by IEEE and ICNIRP. The highest 60-Hz magnetic fields were measured adjacent to transformers and inverters, and radiofrequency fields from 5–100 kHz were associated with the inverters. The fields measured complied in every case with IEEE controlled and ICNIRP occupational exposure limits. In all cases, electric fields were negligible compared to IEEE and ICNIRP limits across the spectrum measured and when compared to the FCC limits (≥0.3 MHz)."

While the project will likely generate some EMF, available scientific literature suggests they will be negligible levels well below established permissible exposure thresholds.

Environmental Consequences

The solar panel arrays have been sited away from occupied residences and well beyond the range expected for EMF generation. Studies (Tell, 2015) show that at approximately 3 feet of distance from inverter units, which generate the highest EMF levels on a commercial solar project, EMF levels are a fraction of the permissible exposure level. Beyond 3 feet levels are negligible. Since the project site is several hundred feet from any occupied residence and will be fenced to prevent unauthorized access, exposure to EMF is not anticipated.

3.12.2 Environmental Risk Management

Affected Environment

A Phase I Environmental Site Assessment (PESA) was conducted at the subject site by ECS on June 20, 2019 in accordance with ASTM E1527-13 and updated May 11, 2020 and January 14, 2021. The results of the ESAs did not identify Recognized Environmental Conditions for the subject site. A former drinking water supply well was observed near the abandoned and derelict structures located on the central portion of the subject property. Based on the rural nature of the surrounding area it is likely that a septic system is also located on the property. It was recommended that these systems should be properly abandoned in accordance with health department procedures during development of the property.

Environmental Consequences

No indications of releases or contamination were observed at or around the property. The proposed project will not generate or store hazardous waste and special permitting or regulatory coordination is not required for environmental waste or contaminant issues. As such, no impacts are expected.

3.13 Corridor Analysis

<u>Affected Environment</u>

Interconnection to the existing electrical grid will be completed sometime in the future by the local utility company as part of a different project and will obtain all required reviews and approvals for that project, as necessary. Connection to the grid is not currently part of this development project or funding request. No federal funding is expected to be used in the future interconnection project and is anticipated to be completed by the local utility company. While information from the local utility is not available concerning timing or design of this future project, Holocene believes the

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most likely interconnection point for the project will be to the north of the solar array along Piney Grove Road and near the proposed access road and almost entirely within the proposed limits of disturbance of this project (reference Appendix II). Therefore, the interconnection corridor will likely be entirely contained within the project site as existing infrastructure exists along Piney Grove Road.

Environmental Consequences

Based on our review of the proposed work, no corridor analysis is necessary at this time. Nonetheless, given the proximity to existing infrastructure, specifically electrical poles and lines along the northern property boundary, the interconnection corridor project to be conducted by the local utility would not be expected to adversely impact environmental resources.

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4.0 SUMMARY OF ENVIRONMENTAL IMPACTS

| Resource | Impact Analysis |
|---|---|
| Land Use | No significant adverse impacts. |
| Farmland | Conversion of approximately 18.8 acres of farmland proposed. No significant impact to surrounding farmland infrastructure or capability and consultation with USDA concluded. |
| Formerly Classified Land | No significant adverse impacts. |
| Floodplains | Not present; no significant adverse impacts. |
| Wetlands | Minimal impacts (0.06 ac) are proposed but are limited. All impacts will be completed in compliance with Nationwide Permit 51 and USACE requirements. |
| Water Resoruces | No significant adverse impacts. Stormwater management and E&S controls required by VPDES permits. |
| Coastal Resources | Not present. No significant adverse impacts. |
| Biological Resources - Fish, Wildlife and Vegetation | No significant deterioration or fragmentation of wildlife habitat or vegetation communities. No significant adverse impacts; USFWS consultation concluded. |
| Biological Resources - Threatened and Endangered | Not likely to adversely effect Northern Long Eared Bat given minimal tree clearing proposed. USFWS consultation concluded. |
| Biological Resources - Migratory Bird Treaty Act | No significant adverse impacts. |
| Biological Resources - Invasive Species | No significant adverse impacts. |
| Historic and Cultural Properties | No significant adverse impacts. Archaeological study concluded and SHPO concurrence requested. |
| Aesthetics | No significant adverse impacts. |
| Air Quality | Minimal short term effect during construction; no significant adverse impacts. |

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| Resource | Impact Analysis |
|---|--|
| Socio-Economic/ Environmental Justice | No significant adverse impacts. |
| Noise | Minimal short term effect during construction; no significant adverse impacts. |
| Transportation | No significant adverse impacts. |
| Human Health and Safety | No significant adverse impacts. |

Temporary impacts due to noise and air pollution during construction are anticipated from construction vehicles; however, these impacts are temporary and at the completion of the project, noise and air pollution will be comparable to the current conditions. Construction will only be allowed during normal working hours to prevent noise pollution on nearby properties outside of these times. Disturbance to the subsurface is proposed to be performed at shallow depths with the exception of piles, to be driven directly into the ground. On-site erosion and sediment controls will be utilized during and after construction to control surface runoff and all appropriate stormwater management plans and reviews will be completed prior to site plan approval. No listed historic or archaeological resources have been documented within the project limits nor are threatened or endangered species believed to be adversely effected. Hazardous wastes will not be generated nor are anticipated to be encountered during construction. The proposed project will not be expected to impact the surrounding community but rather is designed to provide a benefit to it through the production of clean renewable energy for the purposes of bettering the natural and human environment. In summary, no significant adverse environmental impacts are proposed or anticipated and the minor/short term impacts discussed above are not expected to significantly impact the natural or human environment.

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5.0 SUMMARY OF MITIGATION

Based on the proposed project and information gathered for this EA, we believe the information contained herein demonstrates no significant environmental impact and extra mitigation measures do not appear to be warranted for the project. The site selection procedures, project design layout and landscape buffers, VPDES and USACE permit conditions, standard construction BMPs, and adequate stormwater management and E&S plans all appear sufficient to alleviate and/or prevent impacts to the natural or human environment. The avoidance and minimization measures have either already been employed in the design conducted to date, or will be part of the standard construction procedures for a project such as this. Additional mitigation measures beyond the procedures specified above do not appear warranted.

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6.0 COORDINATION, CONSULTATION AND CORRESPONDENCE

During the preparation of this EA, ECS consulted with the following agencies or agency websites:

- Prince Edward County Property Cards
- NRCS Soil Survey and local Field Office
- FEMA Flood Plain Map
- US Fish and Wildlife Services Wetland Mapper
- National Park Service National Wild and Scenic Rivers System
- EPA Sole Source Aquifers Mapping System
- VDEQ Scoping Letters (Appendix XIII)
- VDEQ's Map of Virginia Coastal Zone
- US Fish and Wildlife Services Coastal Barrier Resource System
- US Fish and Wildlife Services IPaC
- Delaware Nation
- Monacan Indian Nation
- VA DCR
- EPA Green Book: Nonattainment Areas for Criteria Pollutant
- EPA Environmental Justice Screening
- US Census Data
- FAA
- NEPA Assist

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7.0 REFERENCES

Supporting documentation from the consulted agencies and sources is provided in the Appendices to this EA.

Prince Edward County Property Cards, last accessed July 10, 2020. https://epayments.co.prince-edward.va.us/applications/txapps/VPCindex.htm

NRCS Soil Survey, last accessed June 16, 2020. https://websoilsurvey.sc.egov.usda.gov/App/ HomePage.htm

Formally Classified Land, last accessed June 5, 2020 https://www.arcgis.com/home/item.html?id=5e92f2e0930848faa40480bcb4fdc44e

FEMA Flood Plain Map, last accessed June 12, 2020. https://msc.fema.gov/portal/home

US Fish and Wildlife Services – Wetland Mapper, last accessed June 16, 2020. https://www.fws.gov/wetlands/data/mapper.html

National Park Service - National Wild and Scenic Rivers System, last accessed June 25, 2020. https://www.rivers.gov/virginia.php

EPA – Sole Source Aquifers Mapping System, last accessed June 8, 2020. https://www.epa.gov/dwssa/map-sole-source-aquifer-locations

VDEQ's Map of Virginia Coastal Zone, last accessed June 8, 2020. https://www.deq.virginia.gov/Portals/0/DEQ/CoastalZoneManagement/Virginia%20CZM%20Program%20Overview.pdf

US Fish and Wildlife Services – Coastal Barrier Resource System, last accessed July 10, 2020. https://www.fws.gov/CBRA/Maps/Mapper.html

US Fish and Wildlife Services – Threatened and Endangered Species Virginia, last accessed June 25, 2020. https://ecos.fws.gov/ecp/

Tribal Directory Assessment Tool (TDAT), last accessed June 4, 2020 https://egis.hud.gov/tdat/

Section 106 Review Basics, last accessed June 10, 2020 https://www.rd.usda.gov/programs-services/all-programs/water-environmental-programs/section-106-review-basics

VA DCR, last accessed June 17, 2020. https://www.dcr.virginia.gov/

EPA Green Book: Nonattainment Areas for Criteria Pollutant, last accessed June 8, 2020. https://www.epa.gov/green-book

EPA Environmental Justice Screening, last accessed June 12, 2020. https://www.epa.gov/environmentaljustice

US Census Data, last accessed June 12, 2020. https://www.census.gov/quickfacts/ pittsylvaniacountyvirginia

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Prince Edward - USDA 2017 Agricultural Census, last accessed June 16, 2020. https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/County_Profiles/Virginia/cp51143.pdf

FAA, last accessed June 8, 2020. https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp

NEPA Assist, last accessed June 8, 2020. https://www.epa.gov/nepa/nepassist

USDA, last accessed June 25, 2020 https://www.rd.usda.gov/resources/environmental-studies/environmental-guidance

Phase I Environmental Site Assessment Completed by ECS, dated July 20, 2019 (ECS Project No. 47:8304-A) updated May 11, 2020 (ECS Project No. 47:8302-B).

Tell RA, Hooper HC, Sias GG, Mezei G, Hung P, Kavet R. Electromagnetic Fields Associated with Commercial Solar Photovoltaic Electric Power Generating Facilities. *J Occup Environ Hyg.* 2015;12(11):795-803. doi:10.1080/15459624.2015.1047021

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8.0 LIST OF PREPARERS

This EA was completed by the following ECS Mid-Atlantic, LLC (consultant) personnel:

Alexandra Moon Senior Project Manager

Adam Meurer, CHMM, PWS, LEED AP Principal

This EA was completed by the following USDA RUS personnel:

Christine Allen Senior Environmental Protection Specialist

Suzanne Kopich Environmental Protection Specialist

James Warner
State Environmental /Civil Rights Coordinator

Appendix I: Figures





Figure 1 Site Location Map



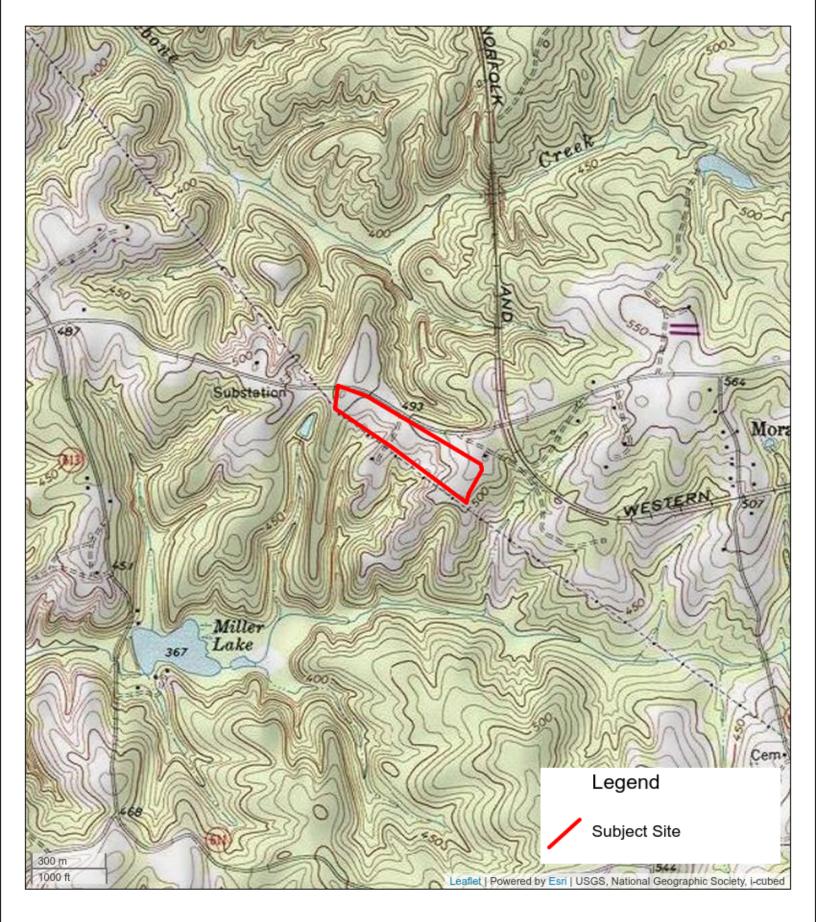




Figure 2 USGS Topographic Map



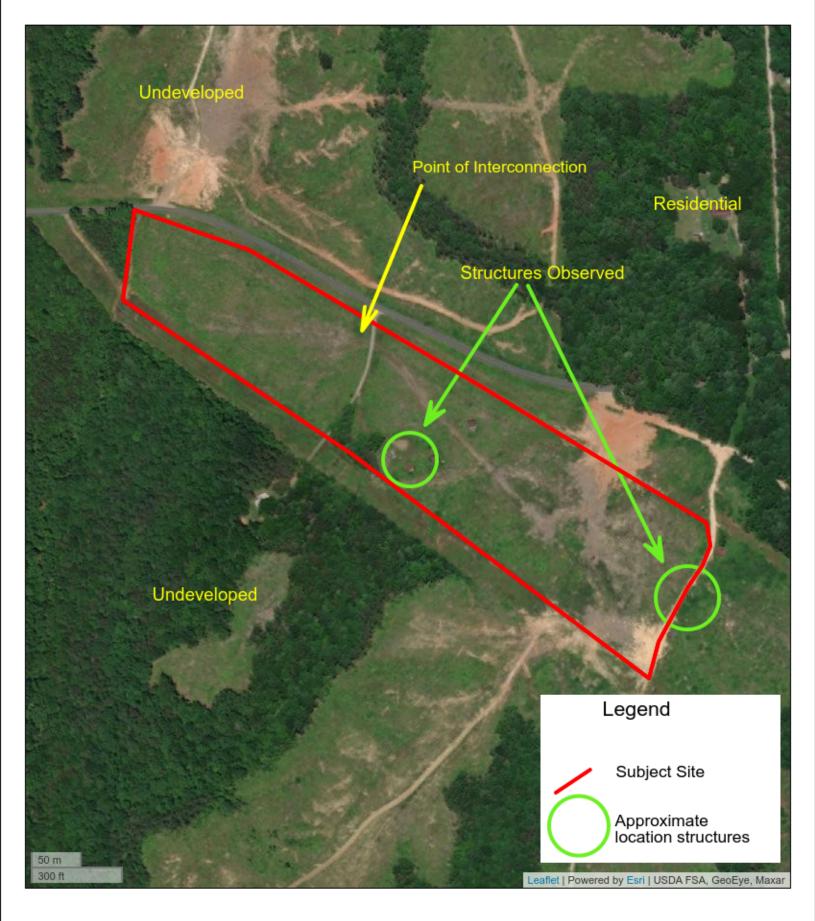
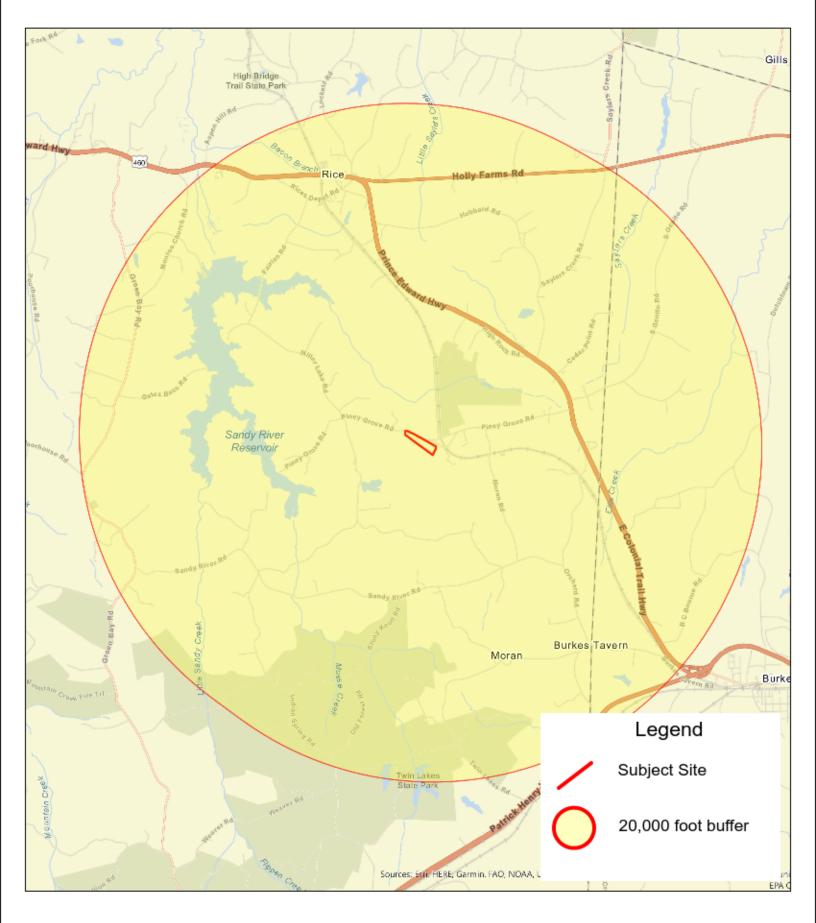




Figure 3 Aerial Photograph



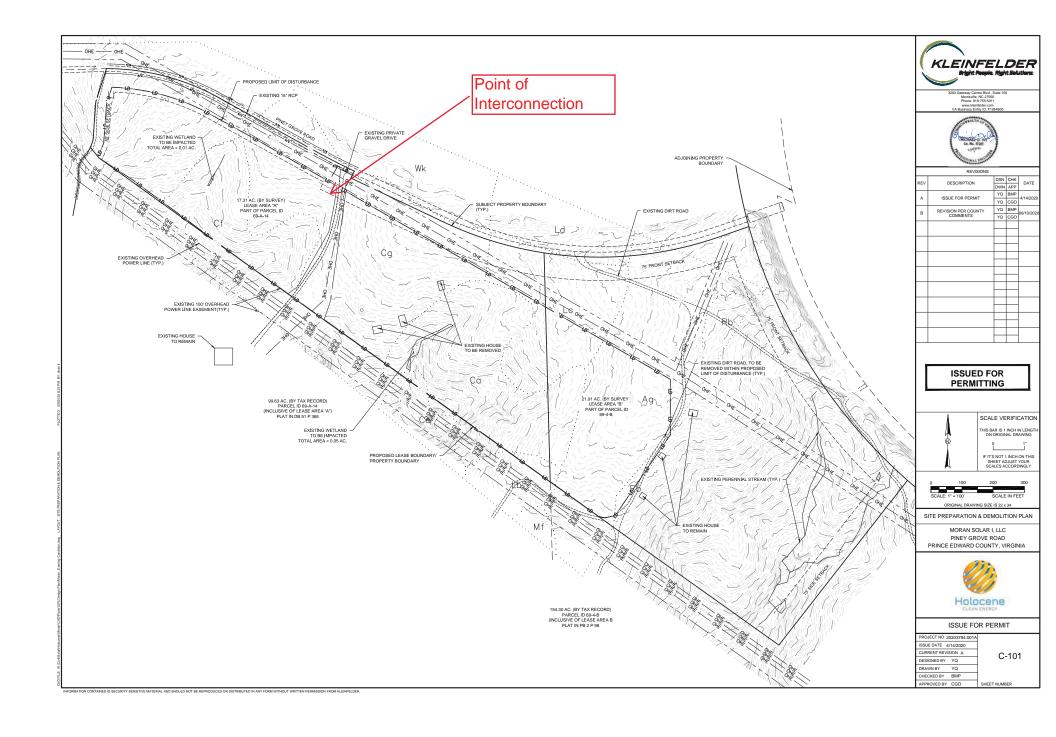


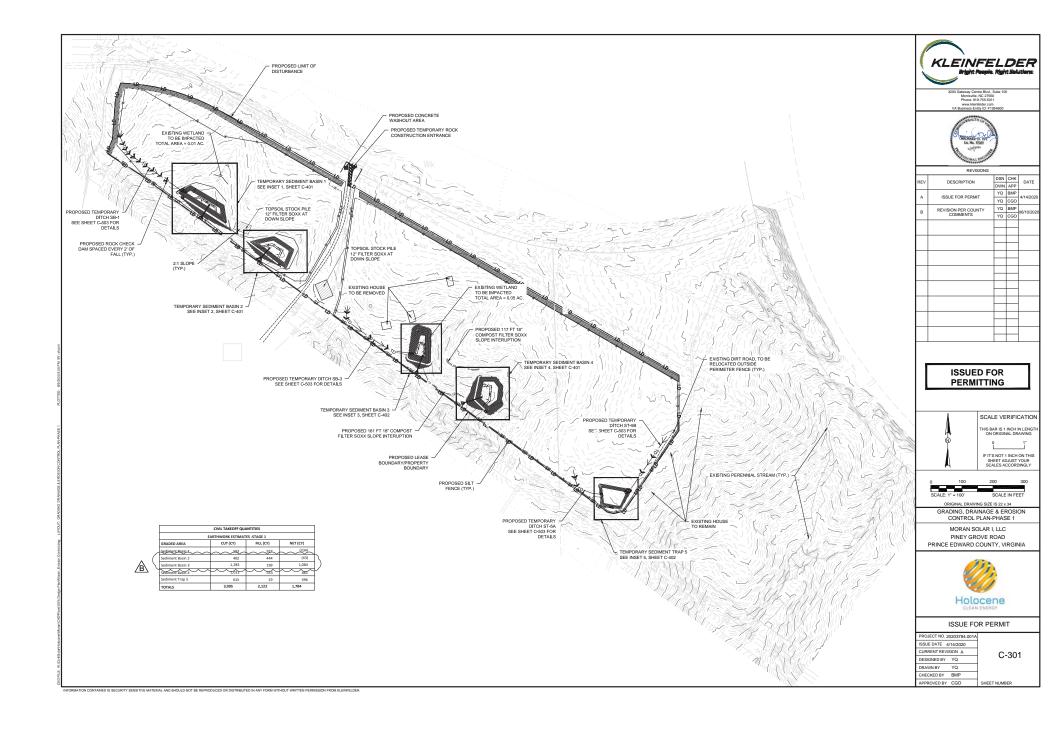


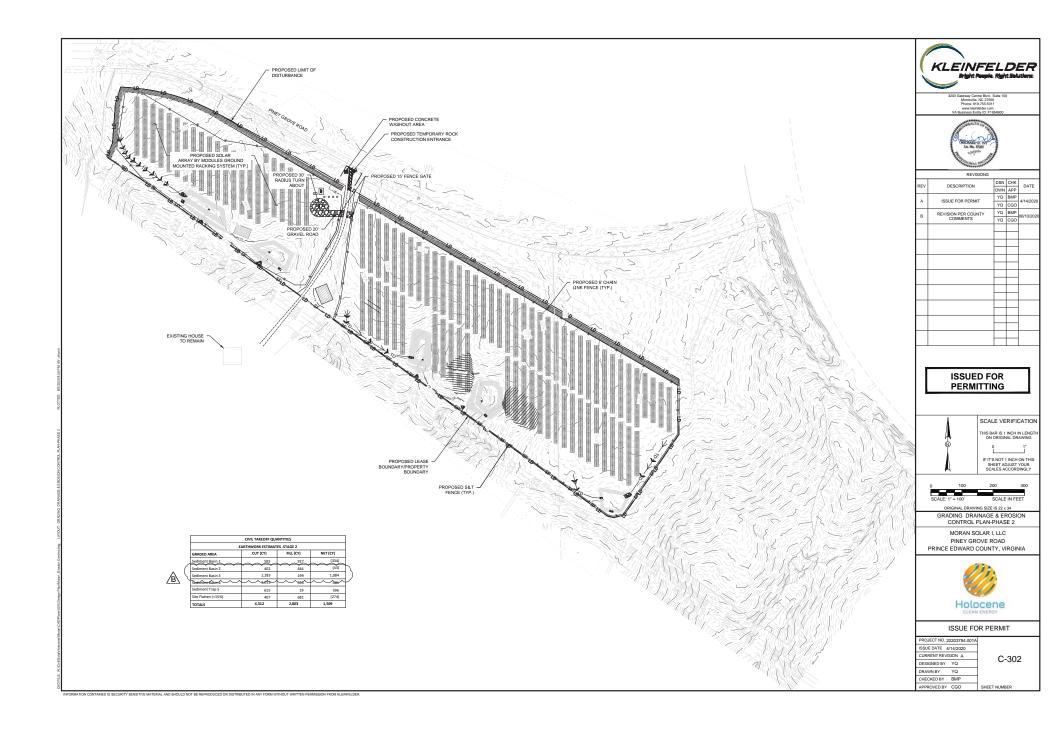


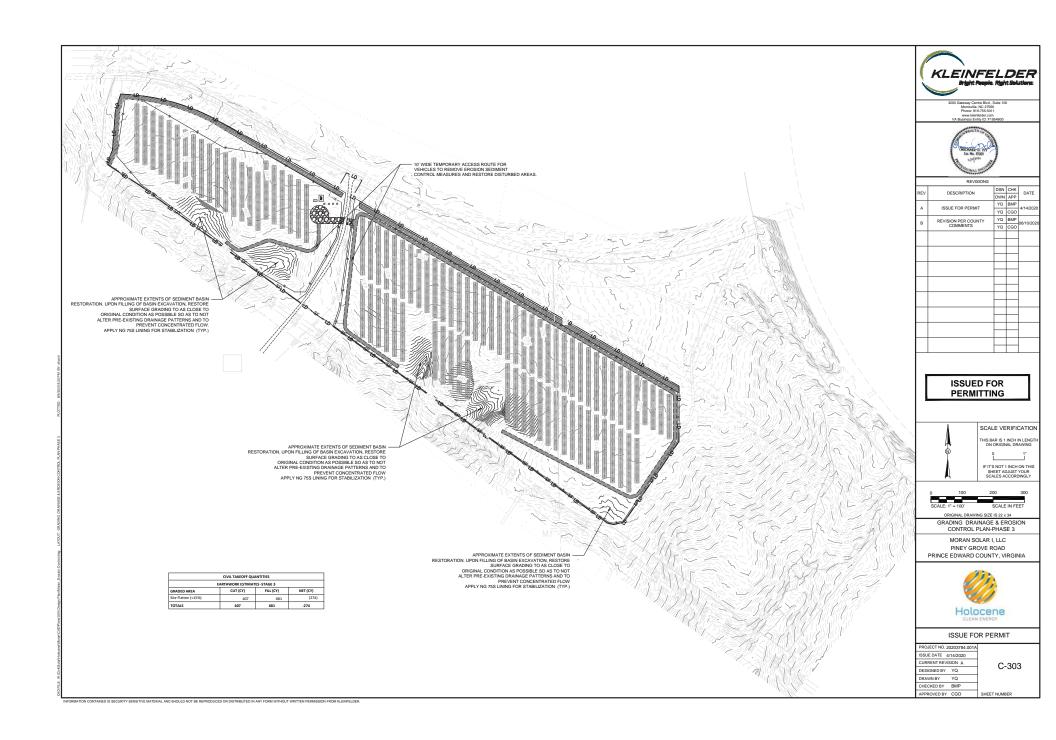


Appendix II: Drawings













1 - Northern portion of the property.



2 - Central portion of the property.



3 - Central portion of the property.



4 - Southern property boundary.



5 - Agricultural outbuilding to be removed.



6 - Remains of a residential structure to be removed.



7 - Remains of a residential structure to be removed.



8 - Well located near the former residential structure.



9 - Surface water along the southern property boundary.



10 - Surface water along the southern property boundary.



11 - Access to the adjoining residential property to the south.



12 - Northern portion of the property.

Appendix IV: Land Use

| F | U.S. Department | | | ATING | | | |
|--|----------------------------------|-------------|-------------------|---------------|--------------------|---------------|-----------|
| PART I (To be completed by Federal Agen | cy) | Date Of L | and Evaluation | Request | | | |
| Name of Project | | Federal A | gency Involved | <u>·</u> I | | | |
| Proposed Land Use | | County ar | , | <u> </u> | | | |
| PART II (To be completed by NRCS) | | Date Req | uest Received | Ву | Person C | ompleting For | m: |
| Does the site contain Prime, Unique, States (If no, the FPPA does not apply - do not con | • | ? Y | ES NO | Acres I | rrigated | Average | Farm Size |
| Major Crop(s) | Farmable Land In Govt. | <i>'</i> | | Amount of I | Farmland As | Defined in FF | PPA |
| major crop(c) | Acres: % | , a a | | Acres: | % | 2000 | |
| Name of Land Evaluation System Used | Name of State or Local S | ite Assessr | ment System | | Evaluation R | eturned by NF | RCS |
| PART III (To be completed by Federal Age | novi | | | | Alternative | Site Rating | |
| | ncy) | | | Site A | Site B | Site C | Site D |
| A. Total Acres To Be Converted Directly | | | | | | | |
| B. Total Acres To Be Converted Indirectly | | | | | | | |
| C. Total Acres In Site | | | | | | | |
| PART IV (To be completed by NRCS) Lan | d Evaluation Information | | | | | | |
| A. Total Acres Prime And Unique Farmland | | | | | | | |
| B. Total Acres Statewide Important or Loca | I Important Farmland | | | | | | |
| C. Percentage Of Farmland in County Or Lo | ocal Govt. Unit To Be Converted | | | | | | |
| D. Percentage Of Farmland in Govt. Jurisdi | ction With Same Or Higher Relati | ive Value | | | | | |
| PART V (To be completed by NRCS) Land Relative Value of Farmland To Be C | | s) | | | | | |
| PART VI (To be completed by Federal Age (Criteria are explained in 7 CFR 658.5 b. For | | CPA-106) | Maximum Points | Site A | Site B | Site C | Site D |
| Area In Non-urban Use | | | (15) | | | | |
| Perimeter In Non-urban Use | | | (10) | | | | |
| Percent Of Site Being Farmed | | | (20) | | | | |
| 4. Protection Provided By State and Local | Government | | (20) | | | | |
| 5. Distance From Urban Built-up Area | | | (15) | | | | |
| 6. Distance To Urban Support Services | | | (15) | | | | |
| 7. Size Of Present Farm Unit Compared To | o Average | | (10) | | | | |
| 8. Creation Of Non-farmable Farmland | | | (10) | | | | |
| 9. Availability Of Farm Support Services | | | (5) | | | | |
| 10. On-Farm Investments | | | (20) | | | | |
| 11. Effects Of Conversion On Farm Suppor | t Services | | (10) | | | | |
| 12. Compatibility With Existing Agricultural | Use | | (10) | | | | |
| TOTAL SITE ASSESSMENT POINTS | | | 160 | | | | |
| PART VII (To be completed by Federal A | Agency) | | | | | | |
| Relative Value Of Farmland (From Part V) | | | 100 | | | | |
| Total Site Assessment (From Part VI above | e or local site assessment) | | 160 | | | | |
| TOTAL POINTS (Total of above 2 lines) | | | 260 | | | | |
| Site Selected: | Date Of Selection | | | | al Site Asses S | sment Used? | |
| Reason For Selection: | | | | | | | |
| | | | | | | | |
| Name of Federal agency representative comp | oleting this form: | | | | D | ate: | |

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

- Step 1 Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, http://fppa.nrcs.usda.gov/lesa/.
- Step 2 Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s)of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at http://offices.usda.gov/scripts/ndISAPI.dll/oip_public/USA_map, or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)
- Step 3 NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.
- Step 4 For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.
- Step 5 NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.
- Step 6 The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office.
- Step 7 The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

(For Federal Agency)

Part I: When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

Part III: When completing item B (Total Acres To Be Converted Indirectly), include the following:

- 1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
- 2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

Part VI: Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

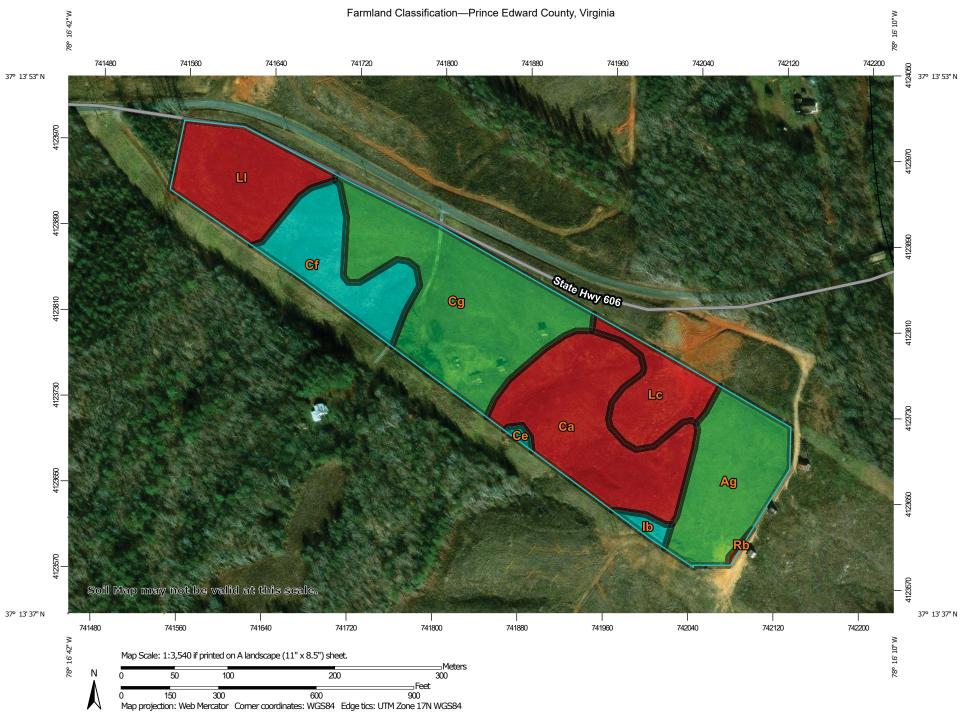
- 1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighted a maximum of 25 points and criterion #11 a maximum of 25 points.
- 2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160. Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

 $\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \text{ X } 160 = 144 \text{ points for Site A}$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.



| | | MAP LEGEND | | |
|---|--|--|---|--|
| Area of Interest (AOI) Area of Interest (AOI) Soils Soil Rating Polygons Not prime farmland All areas are prime farmland Prime farmland if drained Prime farmland if protected from flooding or not frequently flooded during the growing season Prime farmland if irrigated Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season Prime farmland if irrigated and drained Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season | Prime farmland if subsoiled, completely removing the root inhibiting soil layer Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 Prime farmland if irrigated and reclaimed of excess salts and sodium Farmland of statewide importance Farmland of statewide importance, if drained Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if irrigated | Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if irrigated and drained Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 | Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough Farmland of statewide importance, if thawed Farmland of statewide importance Farmland of local importance Farmland of local importance, if irrigated | Farmland of unique importance Not rated or not available Soil Rating Lines Not prime farmland All areas are prime farmland Prime farmland if drained Prime farmland if protected from floodin or not frequently flood during the growing season Prime farmland if drained and either protected from floodin or not frequently flood during the growing season Prime farmland if irrigated Prime farmland if irrigated and drained Prime farmland if irrigated and drained Prime farmland if irrigated and either protected from floodin or not frequently flood during the growing season |

Farmland Classification—Prince Edward County, Virginia

| ~~ | Prime farmland if subsoiled, completely removing the root inhibiting soil layer | ~~ | Farmland of statewide importance, if drained and either protected from flooding or not frequently | ~ | Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium | ~ | Farmland of unique importance Not rated or not available | | Prime farmland if subsoiled, completely removing the root inhibiting soil layer |
|----|---|-----|--|---|---|----------|---|---|---|
| ~ | Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 | ~ | flooded during the growing season Farmland of statewide importance, if irrigated and drained | ~ | Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the | Soil Rat | ting Points Not prime farmland All areas are prime farmland | • | Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 |
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| ~ | importance Farmland of statewide importance, if drained | *** | flooded during the growing season Farmland of statewide | | drained or either protected from flooding or not frequently flooded during the growing | _ | during the growing season | | Farmland of statewide importance Farmland of statewide |
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| | | | 60 | - | Farmland of local importance | _ | and drained Prime farmland if irrigated | _ | importance, if irrigated |
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- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
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- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated

- Farmland of unique importance
- Not rated or not available

Water Features

___ Str

Streams and Canals

Transportation

Rails

~

Interstate Highways

US Routes
Major Roads

-

Local Roads

Background

May .

Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Prince Edward County, Virginia Survey Area Data: Version 13, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 22, 2015—Mar 5, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Farmland Classification

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|-----------------------------|--|----------------------------------|--------------|----------------|
| Ag | Appling sandy loam, undulating phase | All areas are prime farmland | 3.0 | 15.2% |
| Ca | Cecil clay loam, eroded rolling phase | Not prime farmland | 4.4 | 22.6% |
| Ce | Cecil fine sandy loam, hilly phase | Farmland of statewide importance | 0.1 | 0.4% |
| Cf | Cecil fine sandy loam, rolling phase | Farmland of statewide importance | 2.3 | 11.7% |
| Сд | Cecil fine sandy loam, undulating phase | All areas are prime farmland | 5.5 | 28.0% |
| lb | Iredell-Zion fine sandy loams, undulating phases | Farmland of statewide importance | 0.2 | 1.0% |
| Lc | Lloyd clay loam, eroded undulating phase | Not prime farmland | 1.6 | 8.0% |
| С | Louisa fine sandy loam, eroded undulating phase | Not prime farmland | 2.6 | 13.0% |
| Rb | Rock land | Not prime farmland | 0.0 | 0.1% |
| Totals for Area of Interest | est | | 19.6 | 100.0% |

Description

identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

USA Generalized Federal Lands



Lands owned or administered by the federal government. Derived from the National Map Small Scale, National Atlas of the United States.

600ft



NATIONAL WILD AND SCENIC RIVERS SYSTEM









NATIONAL SYSTEM

MANAGEMENT

RESOURCES

PUBLICATIONS

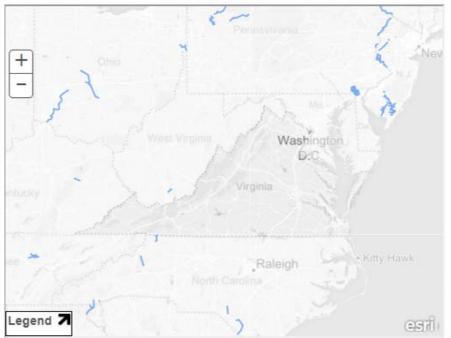
CONTACT US

50 YEARS

SITE INDEX

VIRGINIA

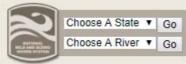
Virginia has approximately 49,350 miles of river, but no designated wild & scenic rivers.



+ View larger map

Virginia does not have any designated rivers.



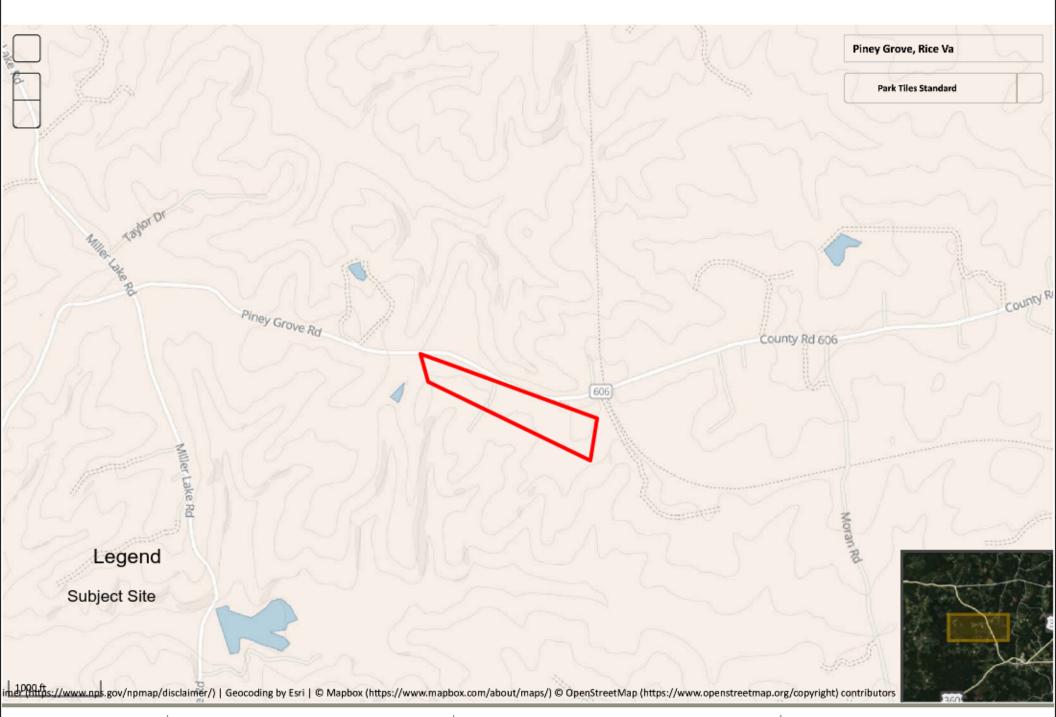


While progress should never come to a halt, there are many places it should never come to at all. — Paul Newman



National Park Service U.S. Department of the Interior

This is a listing of more than 3,200 free-flowing river segments in the U.S. that are believed to possess one or more "outstandingl...



Alexandra Moon

From: ImpactReview <impactreview@vof.org>
Sent: Monday, January 4, 2021 11:37 AM

To: Fulcher, Valerie; Alexandra Moon; eir@deq.virginia.gov

Subject: RE: NEW SCOPING REQUEST Moran Solar 1 Project, Prince Edward County

Ms. Moon,

The Virginia Outdoors Foundation has reviewed the project referenced above. As of 4 January 2021, there are not any existing nor proposed VOF open-space easements in the immediate vicinity of the project.

Please contact VOF again for further review if the project area changes or if this project does not begin within 24 months. Thank you for considering conservation easements.

Thanks, Mike

Mike Hallock-Solomon, AICP Virginia Outdoors Foundation

From: Fulcher, Valerie <valerie.fulcher@deq.virginia.gov>

Sent: Friday, December 18, 2020 2:00 PM

Cc: AMoon@ecslimited.com

Subject: NEW SCOPING REQUEST Moran Solar 1 Project, Prince Edward County

Alert: This email originated from outside VOF

Good afternoon—attached is a request for scoping comments on the following:

Moran Solar 1 Project Piney Grove Road, Rice, Prince Edward County, Virginia

If you choose to make comments, please send them directly to the project sponsor (<u>AMoon@ecslimited.com</u>) and copy the DEQ Office of Environmental Impact
Review: eir@deq.virginia.gov. We will coordinate a review when the environmental document is completed.

DEQ-OEIR's scoping response is also attached.

If you have any questions regarding this request, please email our office at eir@deq.virginia.gov.

Valerie

__

Valerie A. Fulcher, CAP, OM, Admin/Data Coordinator Senior

Department of Environmental Quality

Environmental Enhancement - Office of Environmental Impact Review

1111 East Main Street

Richmond, VA 23219

804/698-4330

Email: Valerie.Fulcher@deq.virginia.gov

https://www.deg.virginia.gov/permits-regulations/environmental-impact-review

OUR ENFORCEABLE POLICIES HAVE BEEN UPDATED FOR 2020: https://www.deq.virginia.gov/permits-regulations/environmental-impact-review/federal-consistency

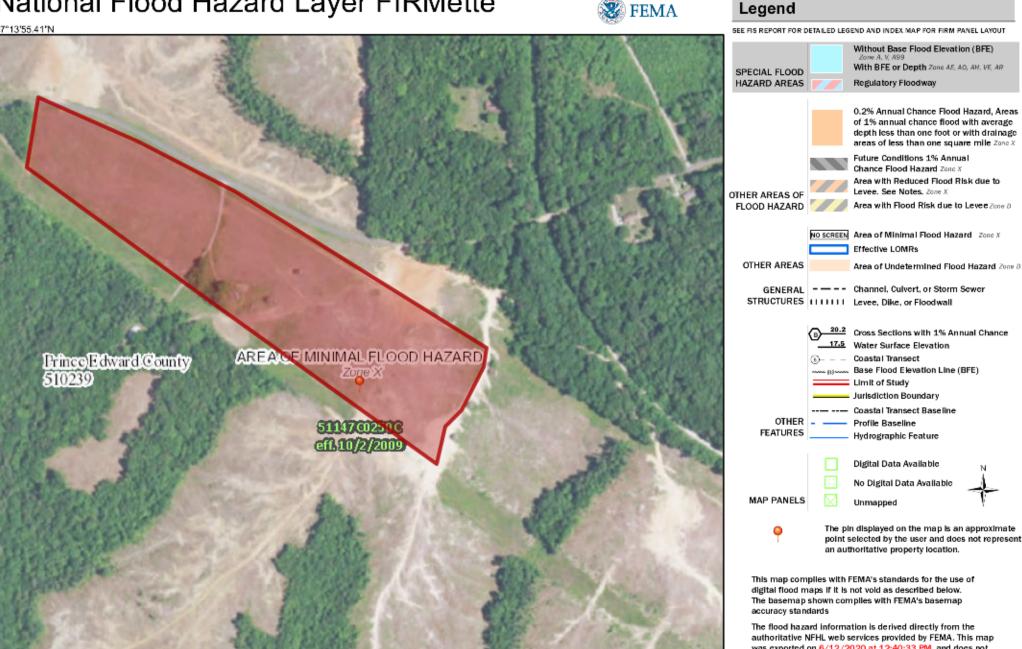
For program updates and public notices please subscribe to Constant Contact: https://lp.constantcontact.com/su/MVcCump/EIR

This message has been analyzed by Deep Discovery Email Inspector.

Appendix V: Flood Plains

National Flood Hazard Layer FIRMette





USGS The National Map: Orthoimagery. Data refreshed April 2020

■ Feet

2,000

250

500

1,000

1,500

1:6,000

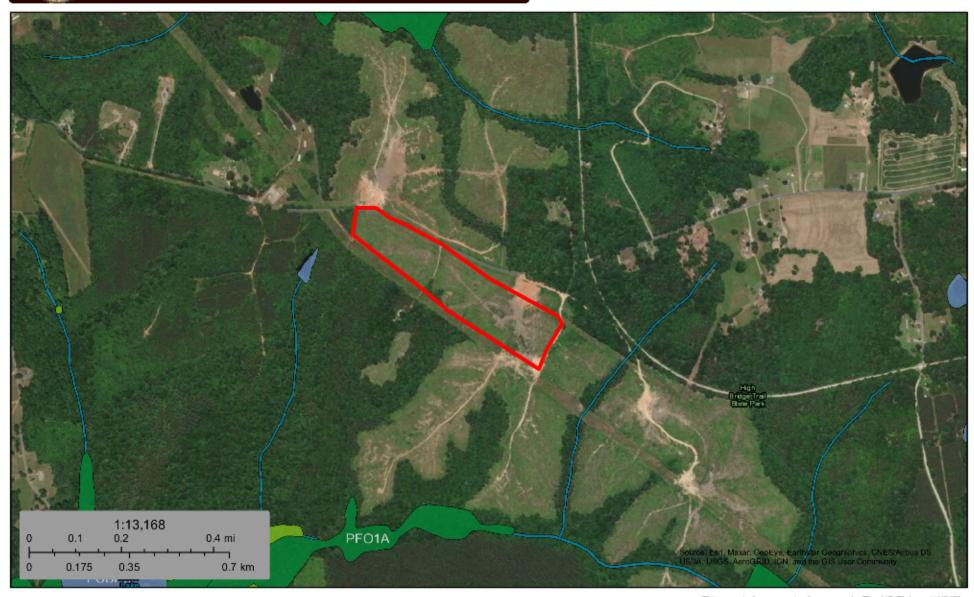
authoritative NFHL web services provided by FEMA. This map was exported on 6/12/2020 at 12:40:33 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix VI: Wetlands

U.S. Fish and Wildlife Service National Wetlands Inventory

Moran



June 16, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland Subject Site

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS

NORFOLK DISTRICT FORT NORFOLK 803 FRONT STREET NORFOLK VA 23510-1011

November 25, 2019

PRELIMINARY JURISDICTIONAL DETERMINATION

Western Virginia Regulatory Section NAO-2019-01751 (Unnamed Tributaries to Sandy River Reservoir)

Ms. Ana Sawyer 394 East Main Street Lebanon, Virginia 24266

Mr. Davis Plunkett Holocene Clean Energy 4325 Lake Boone Trail #200 Raleigh, North Carolina 27607

Dear Ms. Sawyer and Mr. Plunkett:

This letter is in regards to Holocene Clean Energy's request for a preliminary jurisdictional determination for waters of the U.S. (including wetlands) on property known as Moran I Solar Site, an approximately 40-acre project area located to the along Piney Grover Road, in Rice, Prince Edward County, Virginia (portions of tax map parcels 69-4-B and 69-A-14).

The map entitled "Waters of the U.S. Delineation Map, Moran Solar I Piney Grove Road", by ECS Mid-Atlantic, LLC; dated July 2, 2019, (copy enclosed) provides the locations of waters and/or wetlands on the property listed above. The basis for this delineation includes application of the Corps' 1987 Wetland Delineation Manual (and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region) and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation and the presence of an ordinary high water mark. Please note this letter is not the Corps' confirmation of the Cowardin classifications of these aquatic resources.

The Norfolk District relied on the information and data provided by the applicant or agent. If such information and data subsequently prove to be materially false or materially incomplete, this verification may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into waters and/or wetlands on this site may require a Department of the Army permit and authorization by state and local authorities including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from

your local wetlands board. This letter is a confirmation of the Corps preliminary jurisdiction for the waters and/or wetlands on the subject property and does not authorize any work in these areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This is a preliminary jurisdictional determination and is therefore not a legally binding determination regarding whether Corps jurisdiction applies to the waters or wetlands in question. Accordingly, you may consent to jurisdiction as set out in this preliminary jurisdictional determination and the attachments hereto if you agree with the determination, or you may request and obtain an approved jurisdictional determination. This preliminary jurisdictional determination and associated delineation map may be submitted with a permit application.

Enclosed is a copy of the "Preliminary Jurisdictional Determination Form". Please review the document, sign, and return one copy to me, via email at jennifer.s.frye@usace.army.mil or via standard mail to USACE, Roanoke Regulatory Field Office, Richard H. Poff Federal Building, Room 749, 210 Franklin Road SW, Roanoke, Virginia 24011, within 30 days of receipt and keep one for your records. You may rely on this delineation for planning and permitting purposes for no more than five years; however, new information may warrant revisions to this delineation at any time.

If you have any questions or concerns regarding this preliminary jurisdictional determination or the Corps' Regulatory Program, please contact me at (540) 344-1498.

Sincerely,

Jennifer Serafin Frye

Digitally signed by Jennifer Serafin Frye Date: 2019.11.25 14:54:49 -05'00'

Jennifer Serafin Frye, Chief Western Virginia Regulatory Section

Enclosure(s):
Appeals Form
Delineation Map
Preliminary Jurisdictional Determination Form

Cc:

Matt Dalton and Jessica Consolvo, ECS Mid-Atlantic, LLC Jesse (Jay) Roberts, Virginia Department of Environmental Quality



MORAN SOLAR I PINEY GROVE ROAD PRINCE EDWARD COUNTY, VIRGINIA

WATERS OF THE U.S.
DELINEATION MAP
HOLOCENE CLEAN ENERGY

ECS REVISIONS

ENGINEER AMM JAA

SCALE 1" - 300'

1" - 300' PROJECT NO. 47:8304

SHEET 1 OF 1

DATE 07-02-2019

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

| Applio | cant: Holocene Clean Energy | File Number: NAO-2019-01751 | Date: 11/25/2019 | | | |
|--------|--|------------------------------|-------------------|--|--|--|
| Attach | ned is: | | See Section below | | | |
| | INITIAL PROFFERED PERMIT (Standard Per | mit or Letter of permission) | A | | | |
| | PROFFERED PERMIT (Standard Permit or Letter of permission) | | | | | |
| | С | | | | | |
| | APPROVED JURISDICTIONAL DETERMINATION | | | | | |
| X | PRELIMINARY JURISDICTIONAL DETERM | MINATION | Е | | | |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at

http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

| CECTION II DECLIECT FOR ADDEAL OF ODIECTION | ONG TO AN INITIAL DDO | EEEDED DEDMIT |
|---|--|---|
| SECTION II - REQUEST FOR APPEAL OF OBJECTIONS | | |
| REASONS FOR APPEAL OR OBJECTIONS: (Describ | | |
| initial proffered permit in clear concise statements. You may attac | h additional information to this fo | rm to clarify where your reasons |
| or objections are addressed in the administrative record.) | | |
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| ADDITIONAL INFORMATION: The appeal is limited to a fevie | w of the administrative record, the | Corps memorandum for the |
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| record of the appeal conference or meeting, and any supplemental | information that the review office | r has determined is needed to |
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NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

| Applic | cant: Ana Sawyer | File Number: NAO-2019-01751 | Date: 11/25/2019 | | |
|--------|--|------------------------------|-------------------|--|--|
| Attach | ned is: | | See Section below | | |
| | INITIAL PROFFERED PERMIT (Standard Permitted P | mit or Letter of permission) | A | | |
| | PROFFERED PERMIT (Standard Permit or Let | ter of permission) | В | | |
| | С | | | | |
| | APPROVED JURISDICTIONAL DETERMINATION | | | | |
| X | PRELIMINARY JURISDICTIONAL DETERM | IINATION | E | | |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at

http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
 authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
 signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
 to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final
 authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
 signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights
 to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

| CECTION II DECLIECT FOR ADDEAL OF ODIECTION | ONG TO AN INITIAL DDO | EEEDED DEDMIT |
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| SECTION II - REQUEST FOR APPEAL OF OBJECTIONS | | |
| REASONS FOR APPEAL OR OBJECTIONS: (Describ | | |
| initial proffered permit in clear concise statements. You may attac | h additional information to this fo | rm to clarify where your reasons |
| or objections are addressed in the administrative record.) | | |
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Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PJD: November 25, 2019
- B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Davis Plunkett, Holocene Clean Energy, Raleigh, NC 27603
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:
 CENAO-WRR-W, Moran I Solar Site, NAO-2019-01751
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Virginia

County/parish/borough: Prince Edw City: Rice

Center coordinates of site (lat/long in degree decimal format): 37.228636N, -78.271831W

Lat.: xx.xxx° Long.: yy.yyy°

Universal Transverse Mercator:

Name of nearest waterbody: Sandy River Reservoir

| E. | REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): |
|----|---|
| | Office (Desk) Determination. Date: November 25, 2019 |
| | Field Determination. Date(s): |
| T | ABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY |

| Site number | Latitude (decimal degrees) | Longitude (decimal degrees) | Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable) | Type of aquatic resource (i.e., wetland vs. non-wetland waters) | Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404) |
|---|----------------------------------|-----------------------------------|--|---|---|
| | SE | E ATTACH | ED AQUATIO | RESOURCES | HEET |
| | | | | 20194-030024-03 | |
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| | 23 | | | | |

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that; (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

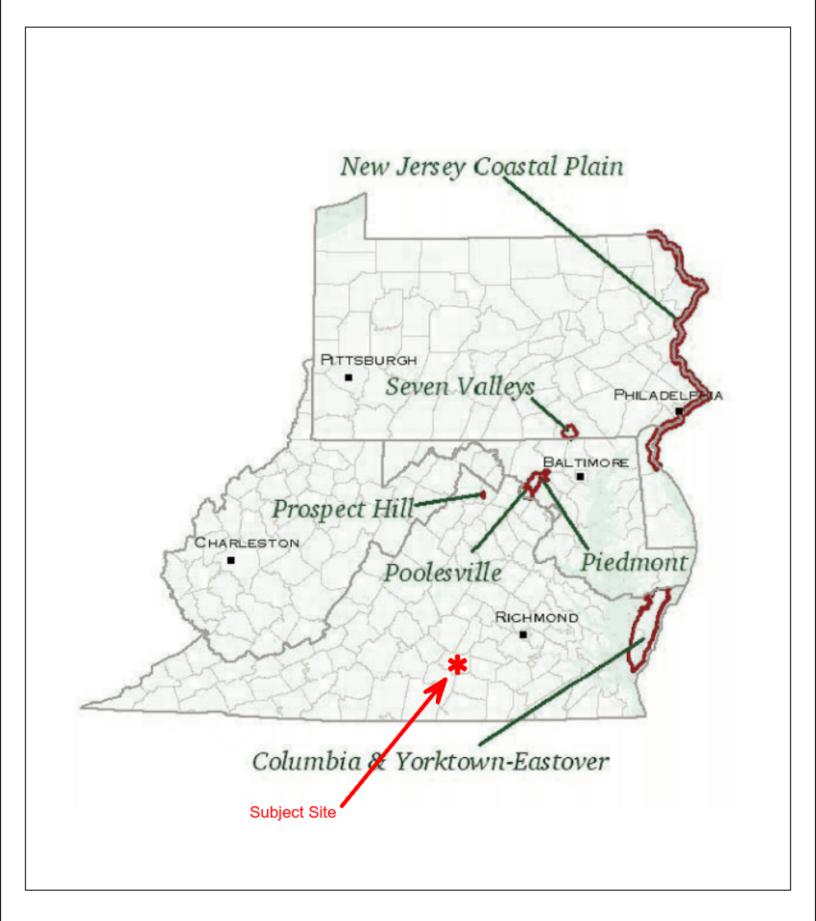
Checked items should be included in subject file. Appropriately reference sources

below where indicated for all checked items: Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map: ECS Mid-Altantic, LLC "MORAN Solar I" Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale: Data sheets prepared by the Corps: . . Corps navigable waters' study: _____. U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: _____. Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: _____. State/local wetland inventory map(s): _____. FEMA/FIRM maps: ____ 100-year Floodplain Elevation is: _____. (National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): NAIP (various), Google Earth (Various) ✓ Other (Name & Date): land photos submitted with ECS Report Previous determination(s). File no. and date of response letter: Other information (please specify): IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations. Jennifer Serafin Digitally signed by Jennifer Serafin Frye Digitally signed by Davis Davis Plunkett Plunkett Date: 2019.12.02 09:58:00 Date: 2019.11.25 14:23:46 Frye -05'00' Signature and date of Signature and date of Regulatory staff member person requesting PJD completing PJD (REQUIRED, unless obtaining the signature is impracticable)1

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

| Waters_Name | Latitude | Longitude | Waters Size | Type Of Aquatic R | esour Geographic Authority |
|-------------|----------|-----------|-------------|-------------------|----------------------------|
| OWB | 37.22779 | -78.26861 | .01 ACRES | open water | Section 404 |
| Stream 1 | 37.22703 | -78.26904 | 781 FEET | Tributary | Section 404 |
| Stream 2 | 37.22777 | -78.26936 | 229 FEET | Tributary | Section 404 |
| Wetland A/C | 37.22772 | -78.26947 | .16 ACRES | wetland | Section 404 |
| Wetland D | 37.22869 | -78.27349 | .05 ACRES | wetland | Section 404 |
| Wetland E | 37.22999 | -78.27517 | .01 ACRES | wetland | Section 404 |





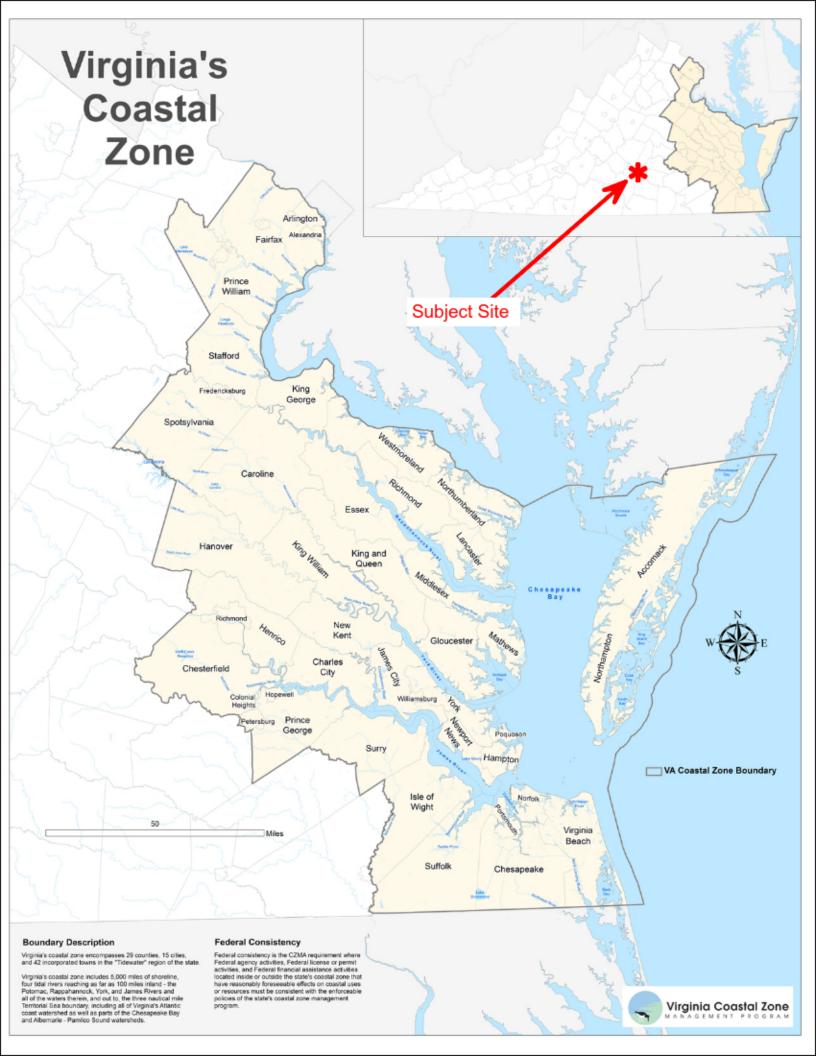


Moran I Solar
Piney Grove Road
Rice, Virginia 23966
ECS Project No. 47:8304-C





Appendix VIII: Coastal Resources

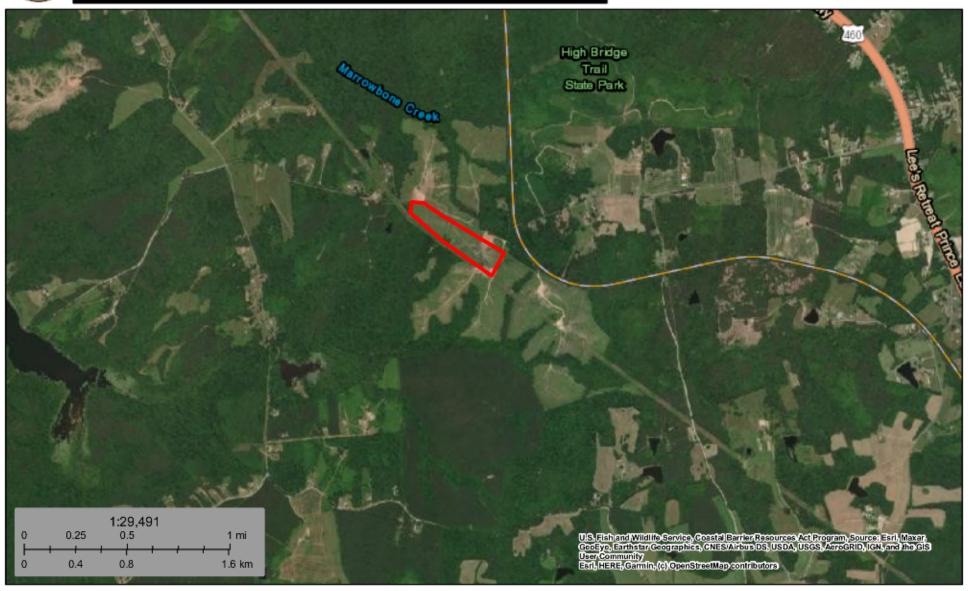


FISH & WILELEY SERVICE

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

Moran Solar I



July 10, 2020

CBRS Buffer Zone

System Unit

CBRS Units

Otherwise Protected Area



Subject Site

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/cbra/maps/index.html. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (http://www.fws.gov/cbra/Determinations.html) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS mapper.

Appendix IX: Biological Resources

Geotechnical • Construction Materials • Environmental • Facilities

USFWS Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410

December 18, 2020

Subject: United States Department of Agriculture (USDA) – Rural Development (RD)

USFWS Scoping Letter Moran Solar 1 Project

Piney Grove Road, Rice, Prince Edward County, Virginia Consultation Tracking Number: 05E2VA00-2020-SLI-4558

To Whom It May Concern:

Holocene Clean Energy is in the process of performing an environmental review pursuant to the National Environmental Policy Act for the USDA, Rural Development in order that it may assess the environmental impacts of the construction of an approximate 18.8-acre solar farm on a portion of a larger 99.63-acre property in Prince Edward County, Virginia. The project is being proposed to provide clean renewable energy to surrounding electric utility customers in support of Governor Northam's and the General Assembly's clean energy mandate. Project components include the installation of photovoltaic panel arrays ground-mounted on singleaxis tracking solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management BMPs. The solar panel array itself will include approximately 61 rows of panels and is anticipated to generate approximately 3.8 MW of DC power and 3 MW AC power. Interconnection to the electrical grid will be completed by the electrical company sometime in the future as part of a second, separate project and will undergo required reviews at that time. No on-site lighting will be present after construction. The disturbance of land will be limited to 18.8 acres (leased area) during construction. The site is currently an open field with some scrubby areas; tree clearing is not proposed. The final project area will include 16.1 fenced acres with the remaining acreage being associated with roadway setbacks. Enclosed is a U.S. Geological Survey map that depicts the proposal's location and a site plan that depicts the proposal's construction activities and a description of the work involved.

To initiate the process, Rural Development has asked us to gather information regarding Federally-listed species, critical habitat, and migratory birds from your office. Rural Development, as the lead Federal agency, is responsible for compliance with Section 7(a)(2) of

the Endangered Species Act and will provide determinations of effect as appropriate during the consultation process.

The proposal should not represent a "major construction activity" as defined in 50 CFR 402.02. We have generated the Official Species List of Federally-listed or proposed threatened or endangered species and designated or proposed critical habitat that may be present in the project area through the online IPaC System. Please note that a project review package was submitted to your office on June 25, 2020 for review and comment (Consultation Code: 05E2VA00-2020-SLI-4558) and a response for additional information was not received within 30 days of submission. We do request you advise us of any present concerns you may have related to possible effects of the project listed above on such species or critical habitat, as well as any other wildlife concerns.

We would appreciate a response within 30 days or as soon as practicable. If you need any further information or wish to discuss the project, please contact Alexandra Moon at 540-362-2000.

Sincerely,

Alexandra Moon

Senior Project Manager

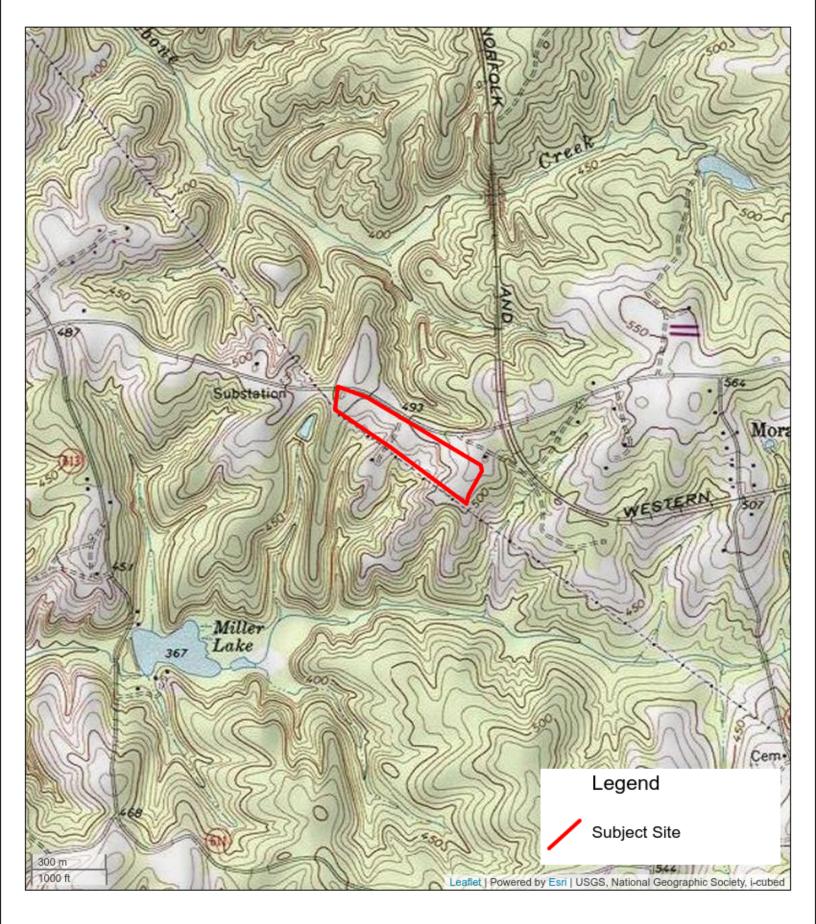
aleyalua Moon

ECS Mid-Atlantic, LLC

Enclosure(s): USGS Topographic Map

Proposed Site Plan

IPAC List of Threatened and Endangered Species

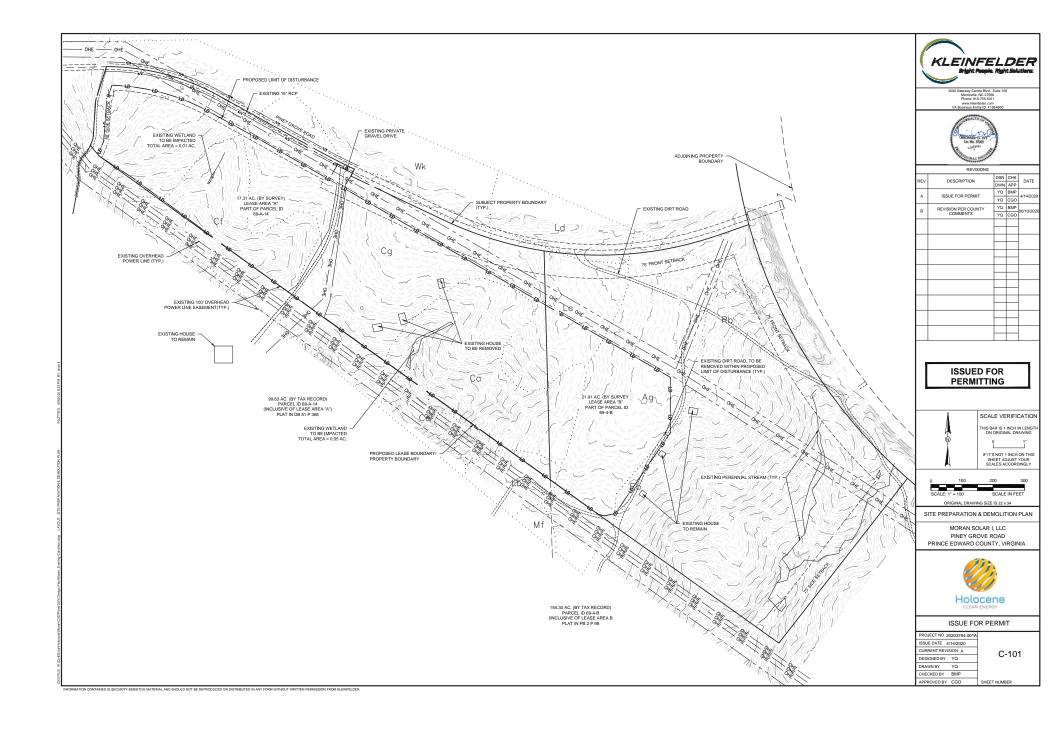




Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-C









United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Field Office 6669 Short Lane Gloucester, VA 23061

Date: June 24, 2020

Self-Certification Letter

Project Name: Moran Solar 1 Project

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Ecological Services online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the project named above in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in:

- "no effect" determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR § 17.40(o) [as determined through the Information, Planning, and Consultation System (IPaC) northern long-eared bat assisted determination key]; and/or
- "may affect, not likely to adversely affect" determinations for proposed/listed species and/or proposed/designated critical habitat.

Applicant Page 2

We certify that use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the determinations described above for proposed and listed species and proposed and designated critical habitat. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of proposed or listed species, proposed or designated critical habitat becomes available, this determination may be reconsidered. This certification letter is valid for 1 year.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website http://www.fws.gov/northeast/virginiafield/endspecies/project_reviews.html. If you have any questions, please contact Troy Andersen of this office at (804) 824-2428.

Sincerely,

Cindy Schulz Field Supervisor

Virginia Ecological Services

Cynthia a Schuly

Enclosures - project review package



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410

Phone: (804) 693-6694 Fax: (804) 693-9032 http://www.fws.gov/northeast/virginiafield/



In Reply Refer To: June 25, 2020

Consultation Code: 05E2VA00-2020-TA-4558

Event Code: 05E2VA00-2020-E-12741 Project Name: Moran Solar I Project

Subject: Verification letter for the 'Moran Solar I Project' project under the January 5, 2016,

Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-eared Bat

and Activities Excepted from Take Prohibitions.

Dear Camille VanSkiver:

The U.S. Fish and Wildlife Service (Service) received on June 25, 2020 your effects determination for the 'Moran Solar I Project' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. This IPaC key assists users in determining whether a Federal action is consistent with the activities analyzed in the Service's January 5, 2016, Programmatic Biological Opinion (PBO). The PBO addresses activities excepted from "take" prohibitions applicable to the northern long-eared bat under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, the Action is consistent with activities analyzed in the PBO. The Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the PBO satisfies and concludes your responsibilities for this Action under ESA Section 7(a)(2) with respect to the northern long-eared bat.

Please report to our office any changes to the information about the Action that you submitted in IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation. If the Action is not completed within one year of the date of this letter, you must update and resubmit the information required in the IPaC key.

If the Action may affect other federally listed species besides the northern long-eared bat, a proposed species, and/or designated critical habitat, additional consultation between you and this Service office is required. If the Action may disturb bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act is recommended.

[1] Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

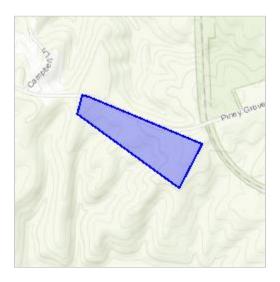
Moran Solar I Project

2. Description

The following description was provided for the project 'Moran Solar I Project':

Project in Rice, VA

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/37.229132410812134N78.27274767399236W



Determination Key Result

This Federal Action may affect the northern long-eared bat in a manner consistent with the description of activities addressed by the Service's PBO dated January 5, 2016. Any taking that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o). Therefore, the PBO satisfies your responsibilities for this Action under ESA Section 7(a)(2) relative to the northern long-eared bat.

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on May 15, 2017. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for Federal actions is to assist determinations as to whether proposed actions are consistent with those analyzed in the Service's PBO dated January 5, 2016.

Federal actions that may cause prohibited take of northern long-eared bats, affect ESA-listed species other than the northern long-eared bat, or affect any designated critical habitat, require ESA Section 7(a)(2) consultation in addition to the use of this key. Federal actions that may affect species proposed for listing or critical habitat proposed for designation may require a conference under ESA Section 7(a)(4).

Determination Key Result

This project may affect the threatened Northern long-eared bat; therefore, consultation with the Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.) is required. However, based on the information you provided, this project may rely on the Service's January 5, 2016, *Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions* to fulfill its Section 7(a)(2) consultation obligation.

Qualification Interview

- 1. Is the action authorized, funded, or being carried out by a Federal agency? *Yes*
- 2. Have you determined that the proposed action will have "no effect" on the northern long-eared bat? (If you are unsure select "No")

 No
- 3. Will your activity purposefully **Take** northern long-eared bats? *No*
- 4. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

Automatically answered No

5. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases — the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

Yes

6. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

7. Will the action involve Tree Removal?

No

0

0

0

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

Estimated total acres of forest conversion:
 If known, estimated acres of forest conversion from April 1 to October 31
 If known, estimated acres of forest conversion from June 1 to July 31

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

- 4. Estimated total acres of timber harvest
- 5. If known, estimated acres of timber harvest from April 1 to October 31 $\it o$
- 6. If known, estimated acres of timber harvest from June 1 to July 31 *0*

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

- 7. Estimated total acres of prescribed fire
- 8. If known, estimated acres of prescribed fire from April 1 to October 31
- 9. If known, estimated acres of prescribed fire from June 1 to July 31 \boldsymbol{o}

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)? θ

Species Conclusions Table

Project Name: Moran Solar Project

Date: June 24, 2020

| Species / Resource Name | Conclusion | ESA Section 7 / Eagle Act Determination | Notes / Documentation |
|--|------------------------------|---|--|
| Northern long-eared Bat (Myotis septentrionalis) | Suitable habitat present | May affect, not likely to adversely affect. | -Relying upon the findings of the 1/5/2016 Programmatic Biological Opinion for Final 4(d) Rule on the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions to fulfill our project-specific section 7 responsibilities. -Subject site is not located within Critical Habitat. -Subject site is not within ¼-mi of known hibernacula or within 150-ft of known maternity roost nest tree. -Approximately 1 acre of trees will be cleared from the subject site. -Since there are no documented occurrences within close proximity to the subject site (see attached habitat map), and due to the minimal amount of tree clearing proposed, no adverse effects on this species is expected. |
| Critical Habitat | No critical habitat present. | No effect. | Official species list. |



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410

Phone: (804) 693-6694 Fax: (804) 693-9032 http://www.fws.gov/northeast/virginiafield/



In Reply Refer To: June 24, 2020

Consultation Code: 05E2VA00-2020-SLI-4558

Event Code: 05E2VA00-2020-E-12704 Project Name: Moran Solar I Project

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410 (804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-4558

Event Code: 05E2VA00-2020-E-12704

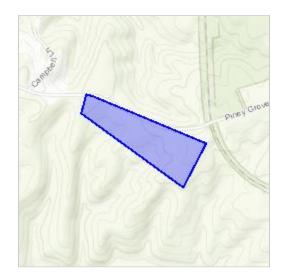
Project Name: Moran Solar I Project

Project Type: POWER GENERATION

Project Description: Project in Rice, VA

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/37.229132410812134N78.27274767399236W



Counties: Prince Edward, VA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

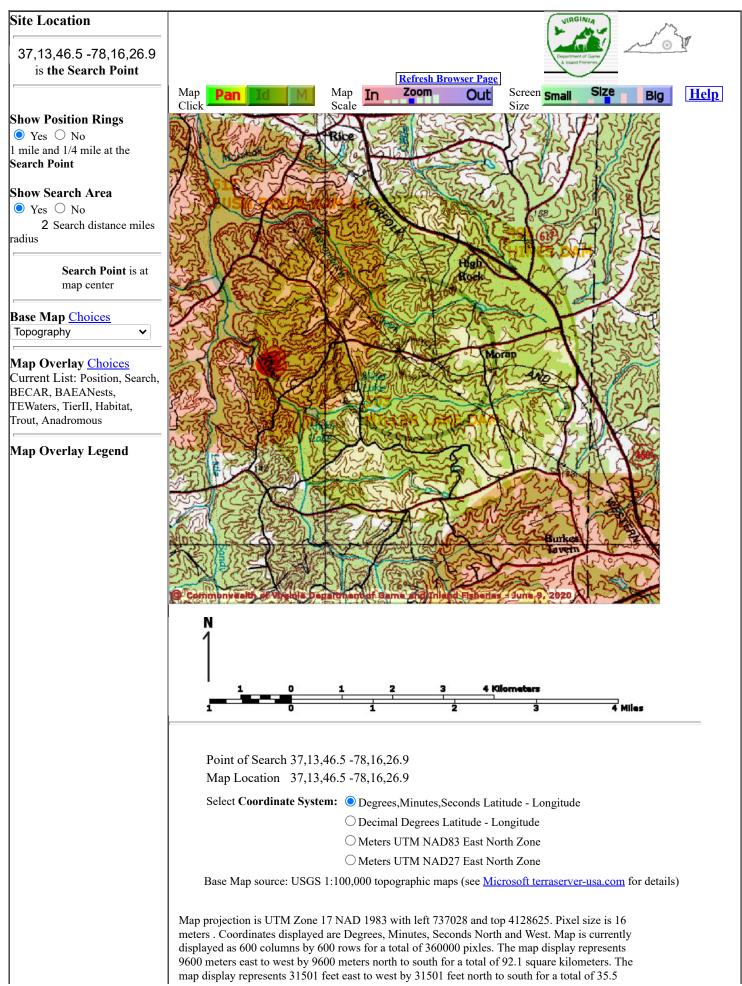
THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

6/9/2020 VaFWIS Map



6/9/2020 VaFWIS Map

square miles. T & E Waters Topographic maps and Black and white aerial photography for year 1990+-Federal are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia State Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic http://www.national.geographic.com/topo Predicted Habitat WAP Tier I & II All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries. Aquatic map assembled 2020-06-09 12:49:31 (qa/qc March 21, 2016 12:20 - tn=1037353.0 dist=3218 Terrestrial \$poi=37.2296030 -78.2741618 Trout Waters Class I - IV Class V - VI Anadromous Fish Reach Confirmed Potential Impediment **Position Rings** 1 mile and 1/4 mile at the Search Point 2 mile radius Search Area **Bald Eagle** Concentration Areas and Roosts

| <u>DGIF</u> | <u>Credits</u> | <u>Disclaimer</u> | Contact <u>vafwis_support@dgif.virginia.gov</u> | Please view our <u>privacy policy</u> | © 1998-2020 Commonwealth of Virginia Department of Game and Inland Fisheries

Virginia Department of Game and Inland Fisheries

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Species Information

By Name

By Land Management

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VaFWIS Search Report Compiled on 6/9/2020, 12:49:10 PM

Known or likely to occur within a 2 mile radius around point 37.2296030 -78.2741618 in 147 Prince Edward County, VA

View Map of Site Location

447 Known or Likely Species ordered by Status Concern for Conservation (displaying first 20) (17 species with Status* or Tier I** or Tier II**)

| BOVA Code | Status* | Tier** | Common Name | Scientific Name | Confirmed | Database(s) |
|-----------|---------|--------|----------------------------|-----------------------------|------------------|-----------------|
| 060003 | FESE | la | Wedgemussel, dwarf | Alasmidonta heterodon | | BOVA |
| 050022 | FTST | la | Bat, northern long-eared | Myotis septentrionalis | | BOVA |
| 050020 | SE | la | Bat, little brown | Myotis lucifugus | | BOVA |
| 050027 | SE | la | Bat, tri-colored | Perimyotis subflavus | | BOVA |
| 040293 | ST | la | Shrike, loggerhead | Lanius Iudovicianus | | BOVA |
| 040385 | ST | la | Sparrow, Bachman's | Peucaea aestivalis | | HU6 |
| 060173 | FPST | la | Pigtoe, Atlantic | Fusconaia masoni | | BOVA |
| 060081 | ST | lla | Floater, green | Lasmigona subviridis | | BOVA |
| 040292 | ST | | Shrike, migrant loggerhead | Lanius ludovicianus migrans | | BOVA |
| 030063 | СС | Illa | Turtle, spotted | Clemmys guttata | | BOVA,HU6 |
| 010077 | | la | Shiner, bridle | Notropis bifrenatus | | BOVA |
| 040213 | | lc | Owl, northern saw-whet | Aegolius acadicus | | HU6 |
| 040052 | | lla | Duck, American black | Anas rubripes | | BOVA,HU6 |
| 040320 | | lla | Warbler, cerulean | Setophaga cerulea | | BOVA,HU6 |
| 040140 | | lla | Woodcock, American | Scolopax minor | | BOVA,HU6 |
| 040105 | | Ilb | Rail, king | Rallus elegans | | BOVA |
| 100166 | | IIc | Skipper, Dotted | Hesperia attalus slossonae | | BOVA,HU6 |
| 010131 | | Illa | Eel, American | Anguilla rostrata | | BOVA |
| 030068 | | Illa | Turtle, woodland box | Terrapene carolina carolina | <u>Yes</u> | BOVA,SppObs,HU6 |
| 040100 | | Illa | Bobwhite, northern | Colinus virginianus | <u>Potential</u> | BOVA,BBA,HU6 |

To view All 447 species View 447

View Map of All Query Results from All Observation Tables

Bat Colonies or Hibernacula: Not Known

https://vafwis.dgif.virginia.gov/fwis/index.asp

1/3

Fish and Wildlife Information Service

Hel

^{*}FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

^{**}I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan Conservation Plan - Tier IV - Moderate Conservation Need; Virginia Wildlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented.; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.; c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Anadromous Fish Use Streams

N/A

Impediments to Fish Passage (2 records)

View Map of All Fish Impediments

| ID | Name | River | View Map |
|-----|-----------------|-------------------------|------------|
| 496 | HINES DAM | TR-LITTLE SAYLERS CREEK | <u>Yes</u> |
| 503 | MILLER LAKE DAM | TR-SANDY RIVER | <u>Yes</u> |

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests (2 records)

<u>View Map of All Query Results</u> <u>Bald Eagle Nests</u>

| Nest | N Obs | Latest Date | DGIF Nest Status | View Map |
|--------|-------|-------------|---------------------|------------|
| PE1001 | 1 | Jan 1 2010 | UNKNOWN | <u>Yes</u> |
| PE9601 | 20 | May 6 2008 | UNKNOWN | <u>Yes</u> |

Displayed 2 Bald Eagle Nests

Species Observations (9 records)

View Map of All Query Results Species Observations

| - h - ID | -l D-4- Obd | | 04 | N Species | | | \G NA |
|----------|-------------|---------------|-----------------|-------------------|-------------|----------------|------------|
| obsID | class | Date Observed | Observer | Different Species | Highest TE* | Highest Tier** | View Map |
| 623214 | SppObs | Aug 7 2013 | Dave; Perry | 1 | | III | <u>Yes</u> |
| 623358 | SppObs | Oct 19 2013 | Dave; Perry | 1 | | | <u>Yes</u> |
| 622248 | SppObs | Jul 17 2013 | Dave; Perry | 1 | | | <u>Yes</u> |
| 623209 | SppObs | May 11 2013 | Dave; Perry | 1 | | | <u>Yes</u> |
| 622397 | SppObs | May 11 2013 | Dave; Perry | 1 | | | <u>Yes</u> |
| 611960 | SppObs | Jul 19 2011 | Wayne; Starnes | 2 | | | <u>Yes</u> |
| 318012 | SppObs | Sep 30 2006 | Frank Burbrink | 1 | | | <u>Yes</u> |
| 11371 | SppObs | May 20 1986 | NORMAN | 15 | | | <u>Yes</u> |
| 27299 | SppObs | Jan 1 1900 | Mitchell, J. C. | 1 | | | <u>Yes</u> |

Displayed 9 Species Observations

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Virginia Breeding Bird Atlas Blocks (1 records)

<u>View Map of All Query Results</u> <u>Virginia Breeding Bird Atlas Blocks</u>

| BBA ID | Atlan Overdramela Black Name | Breeding | g Bird Atlas Sp | ecies | View Men |
|--------|------------------------------|-------------------|-----------------|----------------|------------|
| BBA ID | Atlas Quadrangle Block Name | Different Species | Highest TE* | Highest Tier** | View Map |
| 44076 | Rice, SE | 56 | | III | <u>Yes</u> |

Public Holdings: (1 names)

| Name | Agency | Level |
|------------------------------------|----------------------|-------|
| Prince Edward-Gallion State Forest | VA Dept. of Forestry | State |

Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:

| FIPS Code | City and County Name | Different Species | Highest TE | Highest Tier |
|-----------|----------------------|-------------------|------------|--------------|
| 147 | Prince Edward | 404 | FTSE | I |

USGS 7.5' Quadrangles:

Green Bay Rice

Crewe West

USGS NRCS Watersheds in Virginia:

N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

| HU6 Code | USGS 6th Order Hydrologic Unit | Different Species | Highest TE | Highest Tier |
|----------|--------------------------------|-------------------|------------|--------------|
| JA14 | Bush River-Sandy River | 48 | ST | I |
| JA15 | Saylers Creek | 49 | ST | I |
| JA24 | Flat Creek-Little Creek | 50 | ST | I |

Complied on 619/2020, 12-49-10 PM 11037353.0 report=all searchType=R dist= 3218 poi= 37.226030 -78.2741618
PluelSize=64. Anadromous=0.025382, BBA=0.08501; BECAR=0.024678; Bats=0.023104; Buffer=0.096054; County=0.099076; HUS=0.102237; Impediments=0.039248; Init=0.157354; PublicLands=0.04135; Quad=0.058443; SppObs=0.284288; TEWaters=0.031388. TierReaches=0.040816; TierTerretrial=0.071986; Total=1.299387; Tracking_BOVA=0.159935; Total=1.299387; Total=1.

 $\lceil 6/9/2020,12:49:10$ PM $\mid \underline{DGIF}\mid \underline{Credits}\mid \underline{Disclaimer}\mid$ Please view our $\underline{privacy\ policy}\mid$ © 1998-2020 Commonwealth of Virginia Department of Game and Inland Fisheries I 1037353

If you have difficulty reading or accessing documents, please $\underline{\textbf{Contact Us}}$ for assistance.

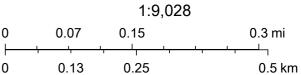
NLEB Locations and Roost Trees



6/9/2020, 12:46:35 PM

No NLEB Location and Roost Trees Identified

*Note: Blue box is site location pin and red outline is subject site boundaries.



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

DCR Map accessed on 6/9/2020



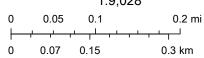
Critical Habitat in Virginia



June 9, 2020

No Critical Habitats identified

*Note: Blue pin is site location pin and red outline is subject site boundaries.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus



CCB Mapping Portal



Layers: Eagle Roosts

Map Center [longitude, latitude]: [-78.27263116836548, 37.22925203700086]

Map Link:

 $\frac{\text{https://ccbbirds.org/maps/\#layer=Eagle+Roosts\&zoom=16\&lat=37.22925203700086\&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/\#layer=Eagle+Roosts\&zoom=16\&lat=37.22925203700086\&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/\#layer=Eagle+Roosts\&zoom=16\&lat=37.22925203700086\&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/#layer=Eagle+Roosts&zoom=16&lat=37.22925203700086&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/#layer=Eagle+Roosts&zoom=16&lat=37.22925203700086&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/#layer=Eagle+Roosts&zoom=16&lat=37.22925203700086&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&base=World+Imagery+\%28ESRI\%29}{\text{https://ccbbirds.org/maps/#layer=Eagle+Roosts&zoom=16&lat=37.22925203700086&lng=-78.27263116836548\&legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend=legend_tab_59557df6-c07b-11e5-a485-0e31c9be1b51\&logend=legend=legend=legend=legend=legend=legend=legend=legend=legend=legend=legend=legend=legend$

Report Generated On: 06/09/2020

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Report generated by The Center for Conservation Biology Mapping Portal.

To learn more about CCB visit $\underline{ccbbirds.org}$ or contact us at info@ccbbirds.org



CCB Mapping Portal



Layers: Eagle Roosts

Map Center [longitude, latitude]: [-78.27263116836548, 37.22925203700086]

Map Link:

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Report Generated On: 06/09/2020

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the <u>Data Use Agreement</u> to ensure compliance with our data use policies. For additional data access questions, view our <u>Data Distribution Policy</u>, or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

Report generated by The Center for Conservation Biology Mapping Portal.

To learn more about CCB visit ccbbirds.org or contact us at info@ccbbirds.org



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410

Phone: (804) 693-6694 Fax: (804) 693-9032 http://www.fws.gov/northeast/virginiafield/



In Reply Refer To: December 23, 2020

Consultation Code: 05E2VA00-2020-SLI-4558

Event Code: 05E2VA00-2021-E-03630 Project Name: Moran Solar I Project

Subject: Updated list of threatened and endangered species that may occur in your proposed

project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410 (804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-4558

Event Code: 05E2VA00-2021-E-03630

Project Name: Moran Solar I Project

Project Type: POWER GENERATION

Project Description: Project in Rice, VA

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/37.229132410812134N78.27274767399236W



Counties: Prince Edward, VA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

REFUGE INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

Appendix X: Historic and Cultural Properties



Matthew Strickler Secretary of Natural Resources

Department of Historic Resources

2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan Director

Tel: (804) 367-2323 Fax: (804) 367-2391 TDD: (804) 367-2386 www.dhr.virginia.gov

December 16, 2020

Camille VanSkiver 2119-D N Hamilton St Richmond, VA 23230

Re: Moran Solar I Project

Prince Edward County, VA DHR File No. 2020-3950

Dear Ms. VanSkiver

We have received for review the *Phase I Cultural Resource Survey of the Moran Solar Project Area, Prince Edward County, Virginia* prepared by Dutton + Associated (D+A) on behalf of United States Department of Agriculture (USDA). The undertaking, as presented, involves the construction of solar facility on approximately 18.1 acres of a larger, 154.19-acre parent parcel. Our comments are provided as assistance to the United States Department of Agriculture's (USDA) Rural Development (RD) in meeting their responsibilities under Section 106 of the National Historic Preservation Act.

Archaeology

The report documents a cultural resources survey of approximately 24 acres. During the course of the survey, one (1) new archaeological site was (44PE0114) identified. 44PE0114 consists of a scatter of domestic debris which is most likely associated with a 1968 map projected structure D+A recommends that **44PE0114** is <u>not eligible</u> for listing in the Virginia Landmarks Register (VLR) and the National Register of Historic Places (NHRP). DHR concurs with D+A's eligibility and impact recommendations.

Architecture

The architectural resources survey for the Moran Solar project resulted in the identification of seven (7) architectural resources greater than 50 years of located within the area of potential effects (APE). One (1) resource was previously recorded (DHR ID No. 006-5007) and six (6) were newly recorded during the course of the survey (DHR ID Nos. 073-5119 through 073-5124 *inclusive*). The High Bridge Trail State Park/Norfolk Southern Railroad (006-5007) is considered *potentially eligible* for listing in the NRHP but will *not be adversely affected* (visually) by the undertaking. The rest of the surveyed resources (DHR ID Nos. 073-5119 through 073-5124 *inclusive*) are not recommended for inclusion in the VLR/NRHP individually or collectively. DHR concurs with D+A's eligibility and impact recommendations.

Eastern Region Office

2801 Kensington Avenue

Richmond, VA 23221

Tel: (804) 367-2323

Fax: (804) 367-2391

Page 2 2020-3950 December 16, 2020

Implementation of the undertaking in accordance with the finding of **No Adverse Effect** as documented fulfills the Federal agency's responsibilities under Section 106 of the National Historic Preservation Act. If for any reason the undertaking is not or cannot be conducted as proposed in the finding, consultation under Section 106 must be reopened

Thank you for seeking our comments on this project. If you have any questions at this time, please do not hesitate to contact me at jennifer.bellville-marrion@dhr.virginia.gov.

Sincerely,

Jenny Bellville-Marrion, Project Review Archaeologist

Review and Compliance Division

c. Robert Taylor (D+A)

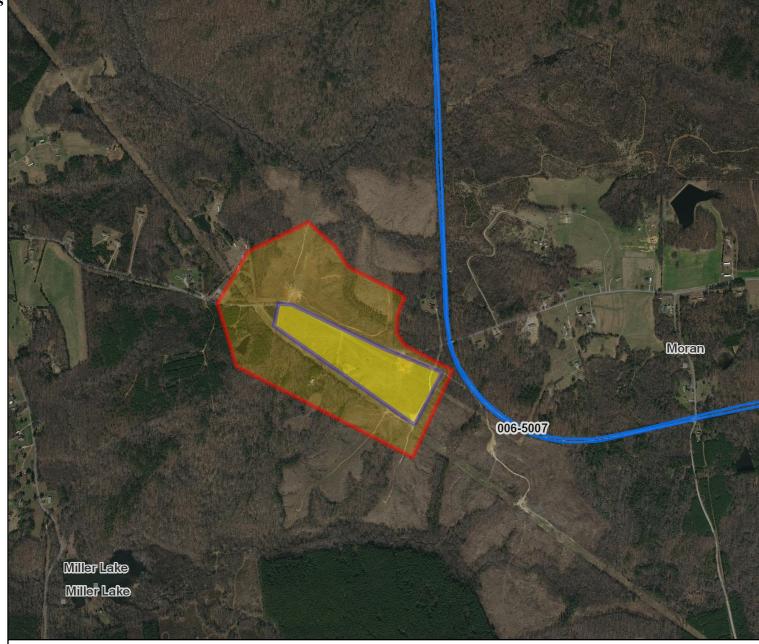
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Virginia Dept. of Historic Resources A CR S

Virginia Cultural Resource Information System

Legend

- Architecture Resources
 Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
 Archaeology Labels
- No. In the Design of the DHR Easements
- USGS GIS Place names
- County Boundaries



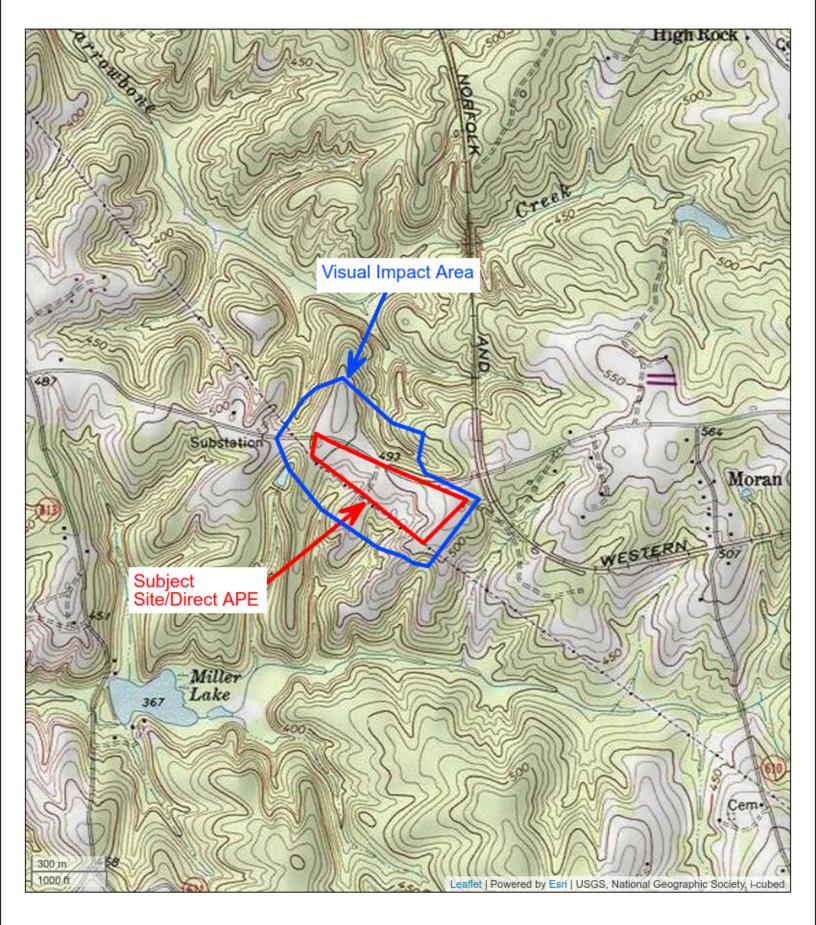


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DISCLAIMER:Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.

Notice if AE sites:Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.





Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-B







6/25/2020

Rural Development Rural Utilities Service 1400 Independence Ave SW, Room 2230 Stop 1570, Washington, DC, 20250 Voice 202.695.2540

Fax 202.690.0649

Julie Langan
DHR Director & State Historic Preservation Officer
2801 Kensington Avenue
Richmond, VA 23221

Subject: USDA RD Rural Utilities Service Staff SHPO Recommended Finding of No Historic Properties Affected Moran Solar 1 Project Piney Grove Road, Rice, Prince Edward County, Virginia

Dear Ms. Langan,

Holocene Clean Energy (Applicant) plans to seek financial assistance from the USDA Rural Development (RD), Rural Utilities Service (RUS) under its Electrical Program for the Moran Solar 1 Project. This Project will not be using the NPA.¹

This project involves the construction of an approximate 19 acre solar farm on a portion of a larger 154 acre property. Project components include the installation of photovoltaic panel arrays ground-mounted on fixed solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management BMPs. The area of potential effect (APE) is determined to be the 19 acre site itself. The visual APE for effects to above-ground historic properties is an approximate 0.25 mile buffer surrounding the project site except in areas where tree cover or topography block line of sight from the project site (see included topographic map). Interconnection to the existing electrical grid will be completed sometime in the future by the local utility company as part of a different project and will obtain all required reviews and approvals for that project, as necessary.

The purpose of this project is to provide clean renewable energy to the existing electrical grid for the purposes of bettering the natural and human environment. The proposed project will help limit greenhouse gas emissions through the generation of solar energy while providing electricity to residential and commercial customers connected to the existing electrical grid.

¹ Nationwide Programmatic Agreement among the U.S. Department of Agriculture Rural Development Programs, National Conference of State Historic Preservation Officers, Tribal Signatories, and The Advisory Council on Historic Preservation for Sequencing Section 106 (NPA).

If RUS elects to fund the Project, it will become an undertaking subject to review under Section 106 of the National Historic Preservation Act, 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800.

RUS defines the area of potential effect (APE), as an area that includes all Project construction and excavation activity required to construct, modify, improve, or maintain any facilities; any right-of-way or easement areas necessary for the construction, operation, and maintenance of the Project; all areas used for excavation of borrow material and habitat creation; all construction staging areas, access routes, utilities, spoil areas, and stockpiling areas. Impacts that come from the undertaking at the same time and place with no intervening causes, are considered "direct" regardless of its specific type (e.g., whether it is visual, physical, auditory, etc.). "Indirect" effects to historic properties are those caused by the undertaking that are later in time or farther removed in distance but are still reasonably foreseeable.

The APE for the referenced project consists of the 19 acres of the solar project itself and a visual impact area approximately ¼-mile from the project boundaries except where topography or forest cover obscure sight lines, as shown on the enclosed map. Additionally, the APE does or does not include any federal and/or tribal lands as defined pursuant to 36 CFR § 800.16(x).

On 6/16/2020 the following Indian tribes were notified about the Moran Solar 1 Project: Monacan Nation and Delaware Nation. As of today's date (6/25/2020), no response has been received.

The enclosed search of the Virginia Department of Historic Resources (DHR) Virginia Cultural Resource Information System (VCRIS) describes the results of the investigation of the APE. No natural heritage resources or historic or cultural resources are mapped within the project area or APE. Based on the findings of the searches complete in June 2020, a finding of no historic properties affected in accordance with 36 CFR § 800.4(d)(1) is appropriate for the referenced project.

Accordingly, the RUS is submitting a finding of no historic properties affected in accordance with 36 CFR § 800.4(d)(1) and supporting documentation for review and consideration by the State Historic Preservation Office. Please provide your concurrence or objection, **electronically** within 30 days of your receipt of this recommended finding. In accordance with 36 CFR § 800.3(c)(4), RUS will proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Camille VanSkiver with ECS Mid-Atlantic, LLC at cvanskiver@ecslimited.com, 804-591-4048 or Steven Polacek at steve.polacek@usda.gov; 202-205-9805 (office).

Sincerely,

Camille N. VanSkiver

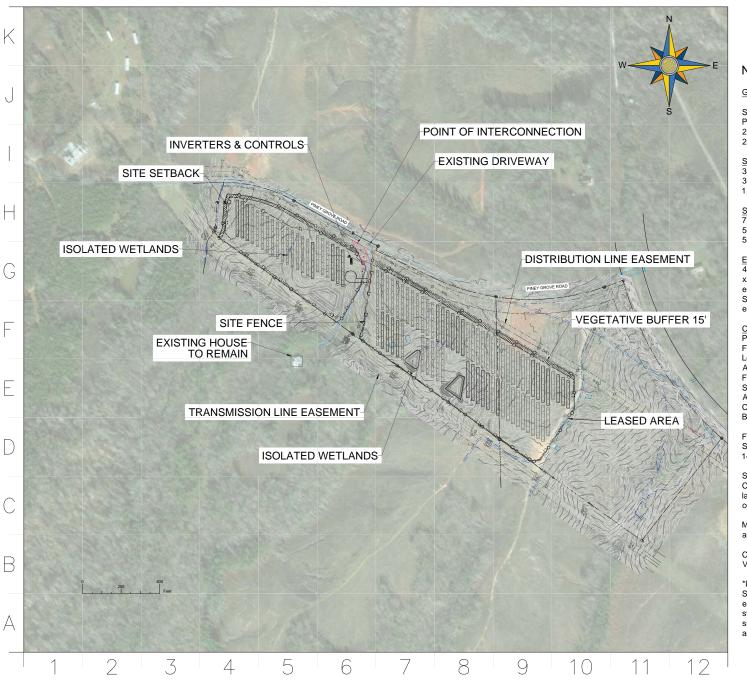
Environmental Staff Project Manager

ECS Mid-Atlantic, LLC

Enclosure(s): USGS Topographic Map

Proposed Site Plan

DHR Search Results Map



NOTES:

General

Sawyer Prince Edward County 2' Contour Interval 26' Racking Pitch

System 3.0 MW AC 3.8 MW DC 1.3 DC/AC Ratio

Setbacks 75' Front 50' Side 50' Rear

Equipment 405W Module (or equal) x2 SMA 2500kW Inverter (or equal) Single Axis N-S Tracker (or equal)

Civil Takeoffs 154.19 Parcel Acreage: Fence Acreage: 16.4 Leased acreage: 18.1 Acreage to Clear: 0.5 Fence [LF]: 5200 Silt Fence [LF]: 5225 Access Road [LF]: 350 Cut/Fill [CY]: 5,000 Building Demolition:

Fencing 6' with 1' barbed wire. Solar Array maximum height 14'.

Storm Water and Erosion & Control will be designed at a later date to meet state and county regulations.

Modules to be UL1703 Certified and have anti-reflective coating.

Construction entrance to meet VDOT regulations.

*Locations are approximate. Subject to change based on environmental and electrical studies, permitting, civil work, surveying, county requirements, and final equipment selection.



HOLOCENE DESIGN BUILD, LLC

4325 LAKE BOONE TRAIL SUITE 220 RALEIGH, NC 27607 UNITED STATES

MORAN SOLAR I 1867 PINEY GROVE RD RICE, VA 23966 UNITED STATES

> PRELIMINARY DRAWING

NOT FOR CONSTRUCTION

DATE ISSUED: 6.4.2020 DRAWN BY: HJH DESIGNED BY: HJH

SHEET NAME

PRELIMINARY LAYOUT

SHEET NUMBER

01

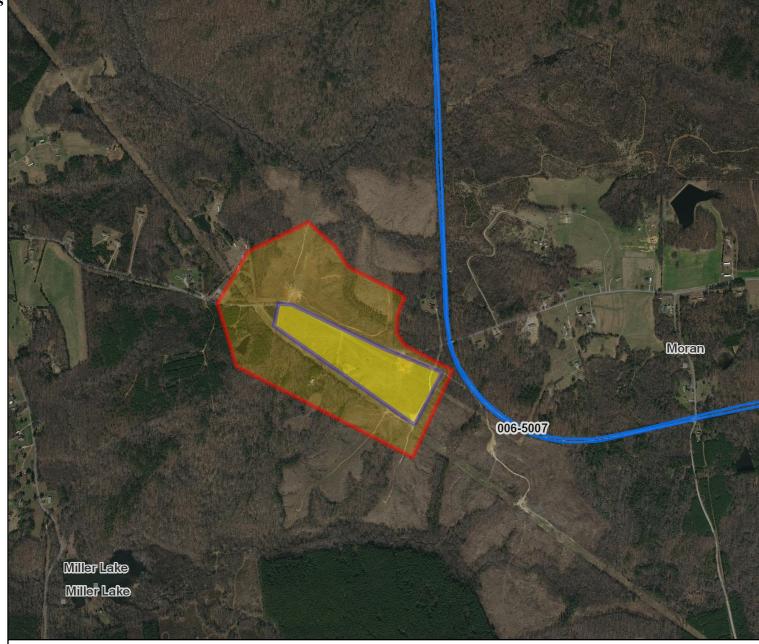
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Virginia Dept. of Historic Resources A CR S

Virginia Cultural Resource Information System

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 Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
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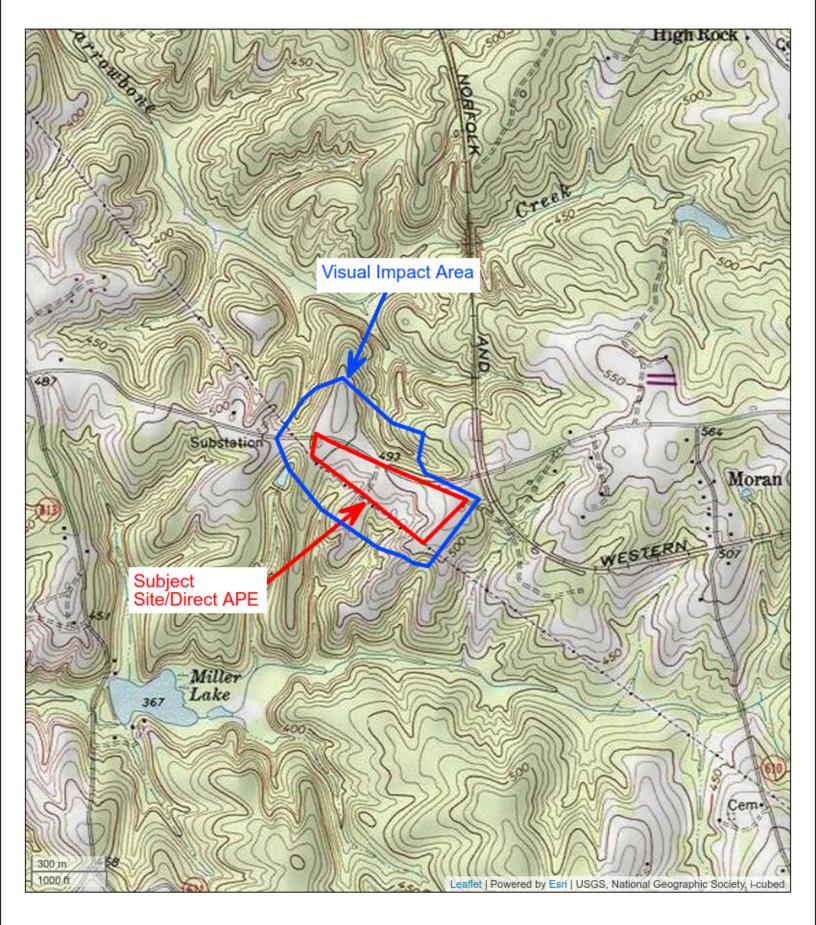


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Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-B





Camille VanSkiver

From: ePIX System <ePIX@dhr.virginia.gov>
Sent: Thursday, July 2, 2020 9:54 AM

To: Camille VanSkiver

Subject: Moran Solar 1 Project (DHR File No. 2020-3950) | e-Mail #01213

Dear Camille VanSkiver:

Thank you for submitting your application through the ePIX system andrequesting the comments of the Department of Historic Resources on thereferenced project. Your application isbeing processed and our 30-day review period will start on the next businessday after submission. You will benotified if your application is insufficient or if additional materials are required for our review.

You may view the submitted application and track our review of thisproject through your ePIX account under "My Projects" (https://epix.dhr.virginia.gov). When our review is complete, comments will beemailed to you and attached to the application in your ePIX account. No project activities that have the potentialto impact historic properties should take place until the lead agency hasprovided a notice to proceed.

If you wish or are asked to submit additional materials in support of your application, documents must be submitted electronically to the appropriate reviewer. Submissions with a total size of less than 10mb may be submitted via email. Submissions larger than 10mb must be made through VITA's Large FileTransfer Application (https://lft.virginia.gov/). Contact your reviewer for instructions.

Please reference the assigned DHR File Number on all futurecorrespondence.

If you have any questions concerning the review process or if we mayprovide any further assistance, please do not hesitate to contact me. We look forward to working with you on thisproject.

Sincerely,

Jennifer Bellville-marrion
Review and Compliance Division

This message has been analyzed by Deep Discovery Email Inspector.



COMMONWEALTH of VIRGINIA

Matthew Strickler Secretary of Natural Resources

Department of Historic Resources

2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan

Tel: (804) 367-2323 Fax: (804) 367-2391 TDD: (804) 367-2386 www.dhr.virginia.gov

July 28, 2020

Camille VanSkiver 2119-D N Hamilton St Richmond, VA 23230

Re: Moran Solar I Project

Prince Edward County, VA DHR File No. 2020-3950

Dear Ms. VanSkiver

We have received your request for comments on the project referenced above. The undertaking, as presented, involves the construction of solar facility on approximately 18.1 acres of a larger, 154.19-acre parent parcel. Our comments are provided as assistance to the United States Department of Agriculture's (USDA) Rural Development (RD) and Rural Utilities Service (RUS) in meeting their responsibilities under Section 106 of the National Historic Preservation Act.

According to our records, the area of potential effects (APE) has not been systematically surveyed. One Architectural resource has been recorded within the APE (DHR ID# 006-5007; High Bridge Trail). DHR ID # 006-5007 is the former Norfolk Southern Rail Line and has been found to be potentially eligible for listing in the National Register of Historic Places (NRHP).

In order to identify historic properties that may be affected by this undertaking, we recommend that a Phase I cultural resources survey be conducted within the APE. The cultural resources survey should include archaeological investigations of the proposed solar facility footprint. The architecture portion of the survey should include the documentation and assessment of any structures located within ½ mile of the project area that are 50 years or older. This survey must be conducted by qualified professionals in accordance with the Secretary of the Interior's Standards and Guidelines (48 FR 44716-42) and DHR's Guidelines for Conducting Historic Resources Survey in Virginia (2017). One bound copy and one digital copy of the resulting report should be submitted to our office for review.

Eastern Region Office

2801 Kensington Avenue

Richmond, VA 23221

Tel: (804) 367-2323

Fax: (804) 367-2391

Page 2 2020-3950 July 28, 2020

Additionally, in order to understand potential impacts to DHR ID# 006-5007, DHR recommends conducting a viewshed analysis of the project area.

Thank you for seeking our comments on this project. If you have any questions at this time, please do not hesitate to contact me at jennifer.bellville-marrion@dhr.virginia.gov.

Sincerely,

Jenny Bellville-Marrion, Project Review Archaeologist

Review and Compliance Division



United States Department of Agriculture

Rural Development

January 4, 2021

RD Area Office

Jennifer Bellville-Marrion

140 Highland Drive

Virginia Department of Historic Resources

Suite 5

Division of Review and Compliance

Lebanon, VA 24266

2801 Kensington Avenue

Richmond, VA 23221

Voice 276-415-3518 Fax 855-636-4613

> Subject: SHPO Recommended Finding of No Adverse Effect Moran Solar I Solar Farm Construction Project Piney Grove Road, Rice, Prince Edward County, VA

Dear Ms. Bellville-Marrion:

Holocene Finance LLC (Owner) is seeking financial assistance from the USDA Rural Development (RD), Rural Business-Cooperative Service (RBS) under its Rural Energy for America Program for the Moran Solar I Solar Farm Construction Project (Project). In regards to the Nationwide Programmatic Agreement among the U.S. Department of Agriculture Rural Development Programs, National Conference of State Historic Preservation Officers, Tribal Signatories, and The Advisory Council on Historic Preservation for Sequencing Section 106 (NPA): This Project will not use the NPA.

If completed, the Project will consist of construction of an approximate 18.8 acre solar farm that will include 61 rows of ground-mounted photovoltaic panels, an inverter an control unit, perimeter security fencing, vegetative buffers/screening, and stormwater management features. The completed farm will generate 3.8 MW of DC power and 3 MW of AC power and will interconnect with the existing electrical grid. The existing water lines are dilapidated and in very poor condition and experience line failures and leaks. The Project is needed to provide clean, renewable energy that limits greenhouse gas emissions and that will assist with meeting recently established renewable energy goals that have been mandated by the Commonwealth of Virginia.

If RBS elects to fund the Project, it will become an undertaking subject to review under Section 106 of the National Historic Preservation Act, 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800.

RBS defines the area of potential effect (APE), as an area that includes all Project construction and excavation activity required to construct, modify, improve, or maintain any facilities; any right-of-way or easement areas necessary for the construction, operation, and maintenance of the Project; all areas used for excavation of borrow material and habitat creation; all construction staging areas, access routes, utilities, spoil areas, and stockpiling areas; and at least a ½-mile radius for the indirect APE for towers and other above ground resources that will cause a visual or otherwise indirect impact to historic districts or properties.

USDA is an equal opportunity provider and employer.

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at http://www.ascr.usda.gov/complaint_filing_cust.html, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.

The APE for the referenced project consists of the proposed disturbance area as well as an additional one-quarter mile radius as shown on the enclosed map. Additionally, the APE does not include any federal and/or tribal lands as defined pursuant to 36 CFR § 800.16(x).

On June 16, 2020 the following Indian tribes were notified about the Project: Delaware Nation, Oklahoma and Monacan Indian Nation. In correspondence dated June 30, 2020, the Delaware Nation, Oklahoma responded that the location of the proposed project does not endanger cultural, or religious sites of interest to the Delaware Nation. They did not request to consult on the project. In correspondence dated July 22, 2020, the Monacan Indian Nation responded that they do not wish to actively consult on the project. Both Tribes requested to be informed if any inadvertent discoveries are made during construction.

The enclosed report titled, *Phase I Cultural Resource Survey of the Moran Solar Project Area, Prince Edward County, Virginia* dated November 2020 describes the results of the survey of the APE. The report documents a cultural resources survey of approximately 24 acres. During the course of the survey, one (1) new archaeological site was identified (44PE0114). The site consists of a scatter of domestic debris which is most likely associated with a 1968 map projected structure. The surveyor recommended that 44PE0114 is not eligible for listing on the Virginia Landmark Register (VLR) or the National Register of Historic Places (NRHP). The architectural resources survey for the Project resulted in the identification of seven (7) resources greater than 50 years of age that are located with the Project APE. One (1) resource was previously recorded (006-5007) and six (6) were newly recorded during the course of the survey (073-5119 – 073-5124 *inclusive*). The High Bridge Trail State Park/Norfolk Southern Railroad (006-5007) is considered potentially eligible for listing on the NRHP but will not be adversely affected (visually) by the undertaking. The rest of the surveyed resources (073-5119 – 073-5124 *inclusive*) are not recommended for inclusion in the VLR/NRHP individually or collectively. In correspondence dated December 16, 2020, the SHPO concurred with the surveyor's findings and recommended that a finding of no adverse effect is appropriate for the referenced project.

Accordingly, the RBS is submitting a finding of no adverse effect in accordance with 36 CFR § 800.5(b) and supporting documentation for review and consideration by the SHPO. Please provide your concurrence or objection, **electronically** within 30 days of your receipt of this recommended finding. In accordance with 36 CFR § 800.3(c)(4), RBS will proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Jim Warner, State Environmental Coordinator at (276) 415-3518 or james.warner2@usda.gov.

Sincerely,

James P. Warner
State Environmental Coordinator

Enclosure(s)

CC: Laurette Tucker, Rural Business Program Specialist, Richmond Alexandra Moon, ECS Mid-Atlantic, LLC

| Phase I Cultural Resources Survey of the Moran Solar Project Area provided electronically. |
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Tribal Directory Assessment Information



Contact Information for Tribes with Interests in Prince Edward County, Virginia

| | Tribal Name | County Name |
|---------|---------------------------|-----------------------|
| + | Delaware Nation, Oklahoma | Prince Edward |
| + | Monacan Indian Nation | Prince Edward |
| 1 - 2 c | f 2 results | « < 1 > » 10 ~ |



Alexandra Moon Senior Project Manager ECS Mid-Atlantic, LLC 7670 Enon Drive, Suite 101 Roanoke, Virginia 24019

6/16/2020

Erin Paden Historic Preservation/106 Director Delaware Nation PO Box 825 Anadarko, Oklahoma 73005

> Subject: United States Department of Agriculture (USDA) – Rural Development (RD) USDA RD Applicant THPO Section 106 Finding Moran Solar 1 Project Piney Grove Road, Rice, Prince Edward County, Virginia

Dear Ms. Paden:

Holocene Clean Energy (Applicant) plans to seek financial assistance from the USDA Rural Development (RD), Rural Utilities Service (RUS) under its Electrical Program for the Moran Solar 1 Project (Project). This Project will not be using the NPA.¹

This project involves the construction of an approximate 19 acre solar farm on a portion of a larger 154 acre property. Project components include the installation of photovoltaic panel arrays ground-mounted on fixed solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management BMPs. The area of potential effect (APE) is determined to be the 19 acre site itself. The visual APE for effects to above-ground historic properties is a ¼-mile buffer surrounding the project site where tree cover and topography allow such a distance to be seen from the site, and confined to a shorter distance where site lines are not present (see included topographic map). Interconnection to the existing electrical grid will be completed sometime in the future by the local utility company as

¹ Nationwide Programmatic Agreement among the U.S. Department of Agriculture Rural Development Programs, National Conference of State Historic Preservation Officers, Tribal Signatories, and The Advisory Council on Historic Preservation for Sequencing Section 106 (NPA).

part of a different project and will obtain all required reviews and approvals for that project, as necessary.

The purpose of this project is to provide clean renewable energy to the existing electrical grid for the purposes of bettering the natural and human environment. The proposed project will help limit greenhouse gas emissions through the generation of solar energy while providing electricity to residential and commercial customers connected to the existing electrical grid.

If RUS elects to fund the Project, it will become an undertaking subject to review under Section 106 of the National Historic Preservation Act, 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800.

RUS defines the area of potential effect (APE), as an area that includes all Project construction and excavation activity required to construct, modify, improve, or maintain any facilities; any right-of-way or easement areas necessary for the construction, operation, and maintenance of the Project; all areas used for excavation of borrow material and habitat creation; all construction staging areas, access routes, utilities, spoil areas, and stockpiling areas. Impacts that come from the undertaking at the same time and place with no intervening causes, are considered "direct" regardless of its specific type (e.g., whether it is visual, physical, auditory, etc.). "Indirect" effects to historic properties are those caused by the undertaking that are later in time or farther removed in distance but are still reasonably foreseeable.

The APE for the referenced project consists of the 19 acres of the solar project itself and a visual impact area approximately $\frac{1}{4}$ -mile from the project boundaries or a shorter distance where site lines are restricted by topography or tree cover, as shown on the enclosed map. The geographic scope of the APE will not be final until a determination is made by RUS pursuant to 36 CFR § 800.4(a)(1). The APE does not include any tribal lands as defined pursuant to 36 CFR § 800.16(x).

The enclosed search of the Virginia Department of Historic Resources (DHR) Virginia Cultural Resource Information System (VCRIS) describes the results of the assessment of the area of potential effects (APE). One architectural resource is mapped in the vicinity of the project site. Following a review of available information for this resource (High Bridge Trail State Park; DHR ID 006-5007), it has been considered 'potentially eligible' for listing on the National Register of Historic Places by DHR due to its Civil War connections. ECS understands that site development will not be occurring near this side of the site and a 15 foot vegetative buffer is proposed along the perimeter of the arrays. Furthermore, existing tree cover will be maintained between the resource and the subject site so that it will not be visible from the Trail. Based on the findings of the search completed in June 2020, a finding of no adverse effect in accordance with 36 CFR § 800.5(b) is appropriate for the referenced project.

Accordingly, the RUS is submitting a finding of no adverse effect in accordance with 36 CFR § 800.5(b) and supporting documentation for review and consideration by the Delaware Nation. Please provide your concurrence or objection, **electronically** within 30 days of your receipt of this recommended finding. In accordance with 36 CFR § 800.3(c)(4), RUS will proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Steven Polacek at steve.polacek@usda.gov; 202-205-9805 (office).

Sincerely,

Alexandra Moon

Senior Project Manager ECS Mid-Atlantic, LLC

alexalua Moon

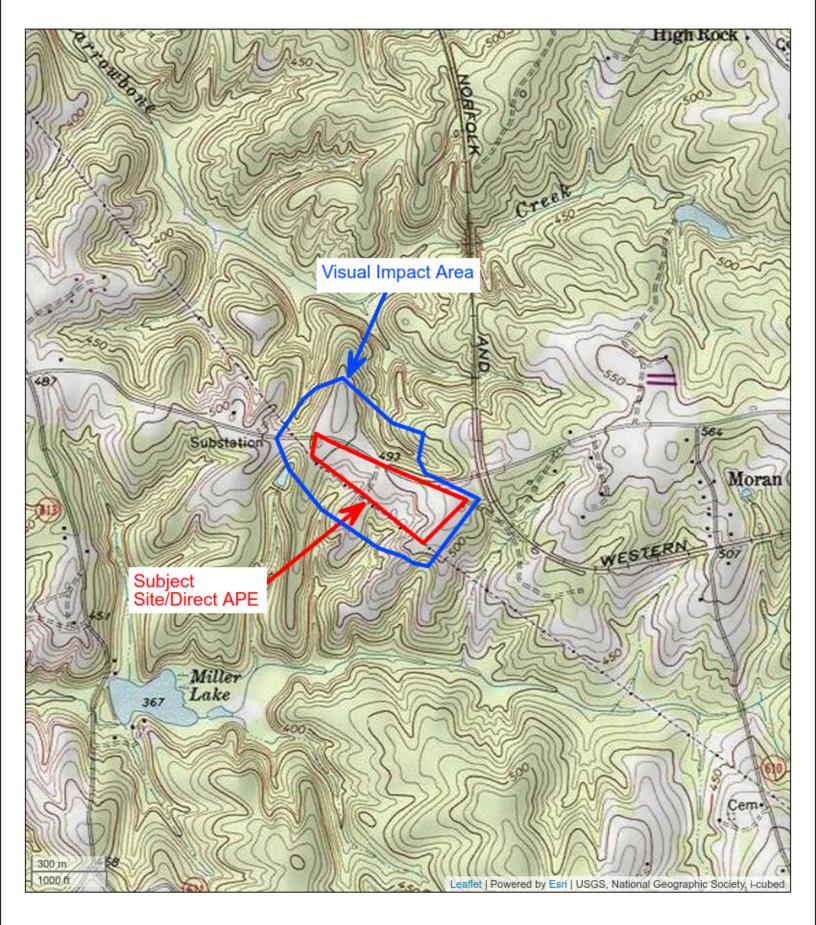
Enclosure(s): USGS Topographic Map

Proposed Site Plan

DHR Search Results Map

DHR Architectural Survey Form

CC Deborah Dotson – President [ddotson@delawarenation-nsn.com]

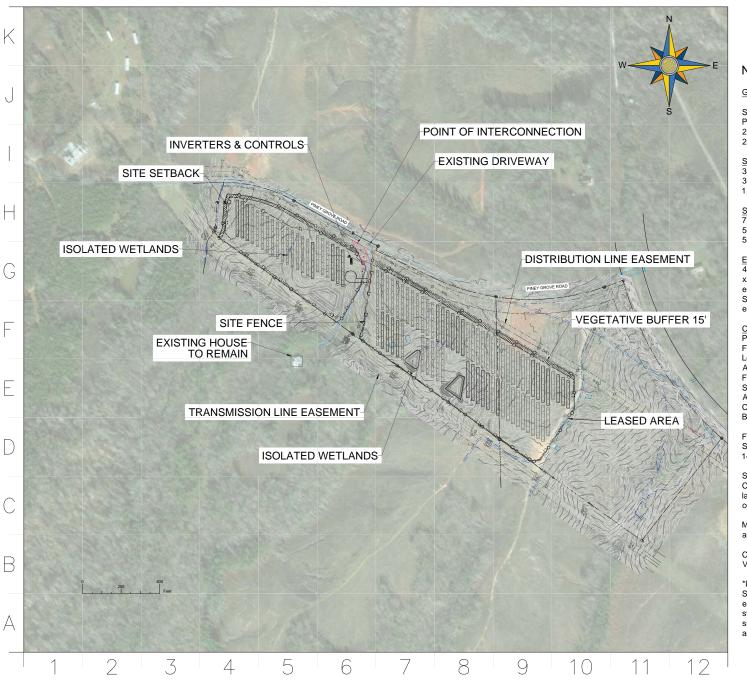




Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-B







NOTES:

General

Sawyer Prince Edward County 2' Contour Interval 26' Racking Pitch

System 3.0 MW AC 3.8 MW DC 1.3 DC/AC Ratio

Setbacks 75' Front 50' Side 50' Rear

Equipment 405W Module (or equal) x2 SMA 2500kW Inverter (or equal) Single Axis N-S Tracker (or equal)

Civil Takeoffs 154.19 Parcel Acreage: Fence Acreage: 16.4 Leased acreage: 18.1 Acreage to Clear: 0.5 Fence [LF]: 5200 Silt Fence [LF]: 5225 Access Road [LF]: 350 Cut/Fill [CY]: 5,000 Building Demolition:

Fencing 6' with 1' barbed wire. Solar Array maximum height 14'.

Storm Water and Erosion & Control will be designed at a later date to meet state and county regulations.

Modules to be UL1703 Certified and have anti-reflective coating.

Construction entrance to meet VDOT regulations.

*Locations are approximate. Subject to change based on environmental and electrical studies, permitting, civil work, surveying, county requirements, and final equipment selection.



HOLOCENE DESIGN BUILD, LLC

4325 LAKE BOONE TRAIL SUITE 220 RALEIGH, NC 27607 UNITED STATES

MORAN SOLAR I 1867 PINEY GROVE RD RICE, VA 23966 UNITED STATES

> PRELIMINARY DRAWING

NOT FOR CONSTRUCTION

DATE ISSUED: 6.4.2020 DRAWN BY: HJH DESIGNED BY: HJH

SHEET NAME

PRELIMINARY LAYOUT

SHEET NUMBER

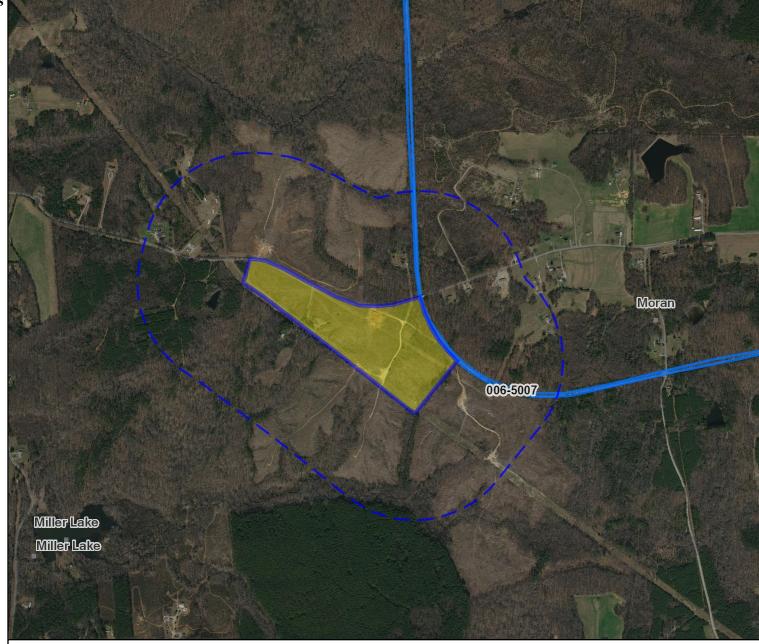
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MORAN SOLAR I

Virginia Cultural Resource Information System

Legend

- Architecture Resources
 Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
 Archaeology Labels
- No. In the Design of the DHR Easements
- USGS GIS Place names
- County Boundaries





Feet

) 500 1000 1500 2000 1:18,056 / 1"=1,505 Feet Title: Date: 6/12/2020

DISCLAIMER:Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.

Notice if AE sites:Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.

DHR ID: 006-5007 Architectural Survey Form Other DHR ID: No Data

Property Information

Name Explanation

Property Names

Name

Historic Current

Norfolk Southern Rail Line High Bridge Trail State Park

> Appomattox (County), Cumberland (County), Nottoway (County), Prince Edward (County)

Property Addresses

Current - Route 460

County/Independent City(s):

Incorporated Town(s): No Data **Zip Code(s):** No Data Magisterial District(s): No Data

Tax Parcel(s):

USGS Quad(s):

No Data CREWE WEST, FARMVILLE,

GREEN BAY, PAMPLIN, PROSPECT, RICE

Property Evaluation Status

DHR Staff: Potentially Eligible

This Property is associated with the High Bridge Trail State Park.

Additional Property Information

Architecture Setting: Transportation Corridor

Acreage:

Site Description:

31 mile stretch of abandoned rail line in Appomatox and Nottoway counties.

April 2008: The High Bridge Trail State Park encompasses 608 acres along a 33.5 mile stretch of an abandoned railroad corridor. The line extends between Pamplin, on the west, and Burkesville, on the east, and roughly parallels U.S. Route 460. The corridor passes through several small towns in a largely rural region. Much of the immediate vicinity of the corridor is heavily wooded. The two bridges cross, in a southeasterly-northwesterly direction, the low-lying flood plain of the Appomattox River. Conifers and deciduous trees forest the area to either side of the crossing, while small shrubs vegetate the cleared land around the bridge piers. The 1914 bridge is sited slightly northeast of the 1854 remains and extends between two, steep, wooded bluffs. The railroad tracks were removed from the corridor in 2005, and the grade is currently covered in crushed stone. Wooden utility poles line much of the rail-bed.

April 2008: There are no secondary resources associated with this property.

Surveyor Assessment:

End Year: 1865

Date Source: Written Data Type: Historical Event

Notes: Union troops tried to burn bridge to block the Confederate retreat to Appomattox.

2004: 33-mile stretch of rail line that includes the pre-Civil War era High Bridge (with a new trestle dating to 1912) is being abandoned by Norfolk Southern. The corridor has strong Civil War connections and the bridge, though the trestle is a replacement, is a well-

known landmark and was regularly painted and photographed from the 1850s forward.

RTD article, 10/27/2004: "On April 6, 1865, Union forces tried to burn the bridge to block the Confederate retreat to Appomattox. Confederate cavalry saved the bridge, and the next day Confederate forces crossed the bridge and succeeded in burning the four western sections, one of which fell into the river. Union troops crossed the river on the lower wagon bridge.'

2007: Soon to be converted to the new High Bridge Trail State Park, for use by the general public for a number of non-motorized activities, including hiking, running, bicycling and horseback riding. Decking and side rails will be added to High Bridge, and the track will be removed for the trail along the course of the entire 31 mile park.

April 2008:

Surveyor Recommendation: Legacy

Ownership

Ownership Category Ownership Entity

Virginia Department of Conservation and Recreation State Govt

Primary Resource Information

June 09, 2020 Page: 1 of 3 Architectural Survey Form

Resource Category:TransportationResource Type:Rail-RelatedNR Resource Type:StructureHistoric District Status:No DataDate of Construction:1854Date Source:Written Data

Historic Time Period: Antebellum Period (1830 - 1860)

Historic Context(s): Commerce/Trade, Industry/Processing/Extraction, Military/Defense, Technology/Engineering,

DHR ID: 006-5007

Other DHR ID: No Data

Transportation/Communication

Other ID Number: No Data

Architectural Style: No Discernable Style

Form: No Data
Number of Stories: No Data
Condition: Good
Threats to Resource: Development

Architectural Description:

2004: 33-mile stretch of railroad between Pamplin and Burkeville. Rail line includes High Bridge, about 15 minutes east of Farmville by rail. Built in 1854 of wooden stone piers.

2007: 31-mile stretch of rail line was transferred to the state from Norfolk Southern, for use as a rails-to-trails connecting Pamplin to Burkeville, running through Prospect, Farmville, High Bridge and Rice.

April 2008: The 608-acre district encompasses the 33.5-mile stretch of abandoned railroad corridor that extends between the towns of Pamplin and Burkeville, passing through Farmville, Rice, and Prospect. The corridor includes the site of two architecturally- and historically-significant bridges that cross the Appomattox River and a major Civil War battle.

Secondary Resource Information

Historic District Information

Historic District Name: High Bridge Trail State Park

Local Historic District Name: No Data
Historic District Significance: No Data

CRM Events

Event Type: NRHP Nomination

DHR ID: 006-5007
Staff Name: Andre, Elizabeth
Event Date: 4/9/2008

Staff Comment
No Data

Event Type: DHR Staff: Potentially Eligible

 DHR ID:
 006-5007

 Staff Name:
 DHR

 Event Date:
 7/1/2004

Staff Comment

Project Review

Marc Holma presenting:

Norfolk & Southern Railroad, Appomattox and Nottoway counties, DHR Project Review File Number 2004-0835, DHR File Number 006-5007. The resource, a 33 mile stretch of the Norfolk & Southern railroad that includes the pre-Civil War –era High Bridge (with a new trestle dating to

June 09, 2020 Page: 2 of 3

Architectural Survey Form Other DHR ID: No Data

1912) is being abandoned by Norfolk & Southern. The corridor has strong Civil War connections, and the bridge – though the trestle is a replacement – is a well-known landmark and was regularly painted and photographed from the 1850s forward. The committee recommends that the corridor is potentially eligible for listing for its Civil War associations and its role in the transportation history of the Commonwealth.

DHR ID: 006-5007

Bibliographic Information Bibliography: No Data Property Notes: No Data

June 09, 2020 Page: 3 of 3



June 30, 2020

To Whom It May Concern:

The Delaware Nation Historic Preservation Department received correspondence regarding the following referenced project(s).

Project(s): Moran Solar 1 Project

Piney Grove Road, Rice, Prince Edward County, Virginia

Our office is committed to protecting tribal heritage, culture and religion with particular concern for archaeological sites potentially containing burials and associated funerary objects.

The Lenape people occupied the area indicated in your letter prior to European contact until their eventual removal to our present locations. According to our files, the location of the proposed project does not endanger cultural, or religious sites of interest to the Delaware Nation. Please continue with the project as planned keeping in mind during construction should an archaeological site or artifacts inadvertently be uncovered, all construction and ground disturbing activities should immediately be halted until the appropriate state agencies, as well as this office, are notified (within 24 hours), and a proper archaeological assessment can be made.

Please note the Delaware Nation, the Delaware Tribe of Indians, and the Stockbridge Munsee Band of Mohican Indians are the only Federally Recognized Delaware/Lenape entities in the United States and consultation must be made only with designated staff of these three tribes. We appreciate your cooperation in contacting the Delaware Nation Historic Preservation Office to conduct proper Section 106 consultation. Should you have any questions, feel free to contact our offices at 405-247-2448 ext. 1403.

Erin Paden

Director of Historic Preservation

Crie M. Paden

Delaware Nation

31064 State Highway 281

Anadarko, OK 73005

Ph. 405-247-2448 ext. 1403

epaden@delawarenation-nsn.gov

Geotechnical • Construction Materials • Environmental • Facilities

Alexandra Moon Senior Project Manager ECS Mid-Atlantic, LLC 7670 Enon Drive, Suite 101 Roanoke, Virginia 24019

6/16/2020

Kenneth Branham Chief Monacan Indian Nation PO Box 960 Amherst, Virginia 24521

Subject: United States Department of Agriculture (USDA) – Rural Development (RD) USDA RD Applicant THPO Section 106 Finding Moran Solar 1 Project
Piney Grove Road, Rice, Prince Edward County, Virginia

Dear Mr. Branham:

Holocene Clean Energy (Applicant) plans to seek financial assistance from the USDA Rural Development (RD), Rural Utilities Service (RUS) under its Electrical Program for the Moran Solar 1 Project (Project). This Project will not be using the NPA.¹

This project involves the construction of an approximate 19 acre solar farm on a portion of a larger 154 acre property. Project components include the installation of photovoltaic panel arrays ground-mounted on fixed solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management BMPs. The area of potential effect (APE) is determined to be the 19 acre site itself. The visual APE for effects to above-ground historic properties is a ¼-mile buffer surrounding the project site where tree cover and topography allow such a distance to be seen from the site, and confined to a shorter distance where site lines are not present (see included topographic map). Interconnection to the existing electrical grid will be completed sometime in the future by the local utility company as

¹ Nationwide Programmatic Agreement among the U.S. Department of Agriculture Rural Development Programs, National Conference of State Historic Preservation Officers, Tribal Signatories, and The Advisory Council on Historic Preservation for Sequencing Section 106 (NPA).

part of a different project and will obtain all required reviews and approvals for that project, as necessary.

The purpose of this project is to provide clean renewable energy to the existing electrical grid for the purposes of bettering the natural and human environment. The proposed project will help limit greenhouse gas emissions through the generation of solar energy while providing electricity to residential and commercial customers connected to the existing electrical grid.

If RUS elects to fund the Project, it will become an undertaking subject to review under Section 106 of the National Historic Preservation Act, 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800.

RUS defines the area of potential effect (APE), as an area that includes all Project construction and excavation activity required to construct, modify, improve, or maintain any facilities; any right-of-way or easement areas necessary for the construction, operation, and maintenance of the Project; all areas used for excavation of borrow material and habitat creation; all construction staging areas, access routes, utilities, spoil areas, and stockpiling areas. Impacts that come from the undertaking at the same time and place with no intervening causes, are considered "direct" regardless of its specific type (e.g., whether it is visual, physical, auditory, etc.). "Indirect" effects to historic properties are those caused by the undertaking that are later in time or farther removed in distance but are still reasonably foreseeable.

The APE for the referenced project consists of the 19 acres of the solar project itself and a visual impact area approximately $\frac{1}{4}$ -mile from the project boundaries or a shorter distance where site lines are restricted by topography or tree cover, as shown on the enclosed map. The geographic scope of the APE will not be final until a determination is made by RUS pursuant to 36 CFR § 800.4(a)(1). The APE does not include any tribal lands as defined pursuant to 36 CFR § 800.16(x).

The enclosed search of the Virginia Department of Historic Resources (DHR) Virginia Cultural Resource Information System (VCRIS) describes the results of the assessment of the area of potential effects (APE). One architectural resource is mapped in the vicinity of the project site. Following a review of available information for this resource (High Bridge Trail State Park; DHR ID 006-5007), it has been considered 'potentially eligible' for listing on the National Register of Historic Places by DHR due to its Civil War connections. ECS understands that site development will not be occurring near this side of the site and a 15 foot vegetative buffer is proposed along the perimeter of the arrays. Furthermore, existing tree cover will be maintained between the resource and the subject site so that it will not be visible from the Trail. Based on the findings of the search completed in June 2020, a finding of no adverse effect in accordance with 36 CFR § 800.5(b) is appropriate for the referenced project.

Accordingly, the RUS is submitting a finding of no adverse effect in accordance with 36 CFR § 800.5(b) and supporting documentation for review and consideration by the Monacan Indian Nation. Please provide your concurrence or objection, **electronically** within 30 days of your receipt of this recommended finding. In accordance with 36 CFR § 800.3(c)(4), RUS will proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Steven Polacek at steve.polacek@usda.gov; 202-205-9805 (office).

Sincerely,

Alexandra Moon

Senior Project Manager

alexalua Moon

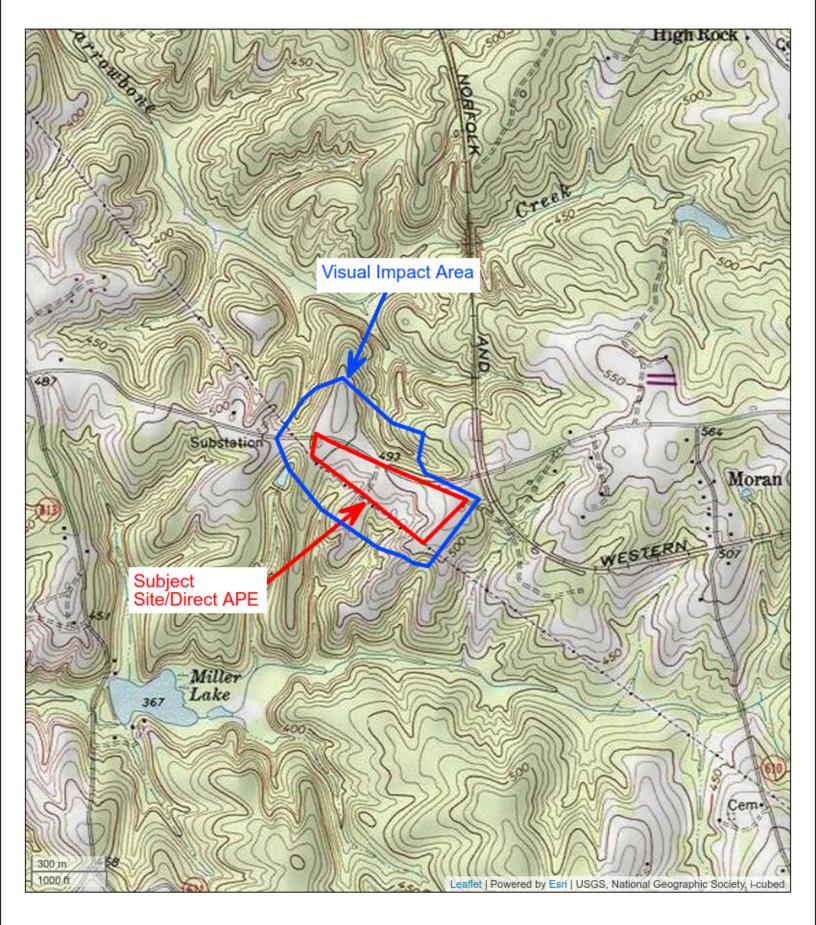
ECS Mid-Atlantic, LLC

Enclosure(s): USGS Topographic Map

Proposed Site Plan

DHR Search Results Map

DHR Architectural Survey Form

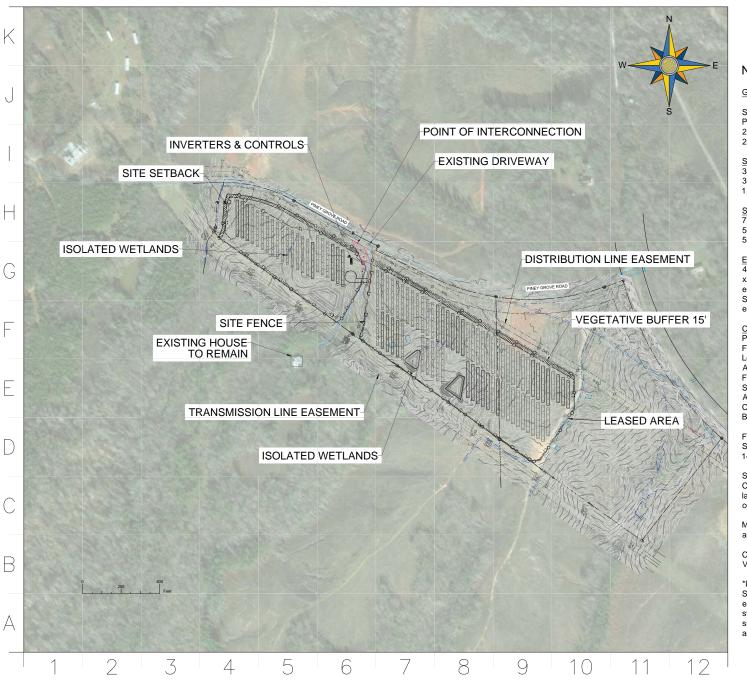




Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-B







NOTES:

General

Sawyer Prince Edward County 2' Contour Interval 26' Racking Pitch

System 3.0 MW AC 3.8 MW DC 1.3 DC/AC Ratio

Setbacks 75' Front 50' Side 50' Rear

Equipment 405W Module (or equal) x2 SMA 2500kW Inverter (or equal) Single Axis N-S Tracker (or equal)

Civil Takeoffs 154.19 Parcel Acreage: Fence Acreage: 16.4 Leased acreage: 18.1 Acreage to Clear: 0.5 Fence [LF]: 5200 Silt Fence [LF]: 5225 Access Road [LF]: 350 Cut/Fill [CY]: 5,000 Building Demolition:

Fencing 6' with 1' barbed wire. Solar Array maximum height 14'.

Storm Water and Erosion & Control will be designed at a later date to meet state and county regulations.

Modules to be UL1703 Certified and have anti-reflective coating.

Construction entrance to meet VDOT regulations.

*Locations are approximate. Subject to change based on environmental and electrical studies, permitting, civil work, surveying, county requirements, and final equipment selection.



HOLOCENE DESIGN BUILD, LLC

4325 LAKE BOONE TRAIL SUITE 220 RALEIGH, NC 27607 UNITED STATES

MORAN SOLAR I 1867 PINEY GROVE RD RICE, VA 23966 UNITED STATES

> PRELIMINARY DRAWING

NOT FOR CONSTRUCTION

DATE ISSUED: 6.4.2020 DRAWN BY: HJH DESIGNED BY: HJH

SHEET NAME

PRELIMINARY LAYOUT

SHEET NUMBER

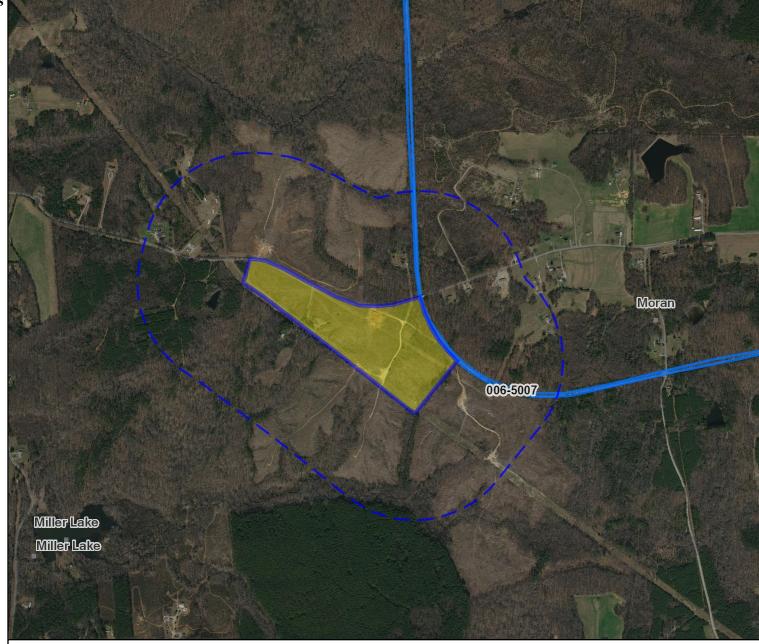
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MORAN SOLAR I

Virginia Cultural Resource Information System

Legend

- Architecture Resources
 Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
 Archaeology Labels
- No. In the Design of the DHR Easements
- USGS GIS Place names
- County Boundaries





Feet

) 500 1000 1500 2000 1:18,056 / 1"=1,505 Feet Title: Date: 6/12/2020

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Architectural Survey Form

DHR ID: 006-5007 Other DHR ID: No Data

Property Information

Property Names

Name

Name Explanation

Norfolk Southern Rail Line

Historic Current

High Bridge Trail State Park

Property Addresses

Current - Route 460

County/Independent City(s):

Appomattox (County), Cumberland (County), Nottoway (County),

Prince Edward (County)

Incorporated Town(s): Zip Code(s): Magisterial District(s): No Data No Data No Data

Tax Parcel(s):

No Data

USGS Quad(s):

CREWE WEST, FARMVILLE, GREEN BAY, PAMPLIN,

PROSPECT, RICE

Property Evaluation Status

DHR Staff: Potentially Eligible

This Property is associated with the High Bridge Trail State Park.

Additional Property Information

Architecture Setting: Transportation Corridor

Acreage:

Site Description:

31 mile stretch of abandoned rail line in Appomatox and Nottoway counties.

April 2008: The High Bridge Trail State Park encompasses 608 acres along a 33.5 mile stretch of an abandoned railroad corridor. The line extends between Pamplin, on the west, and Burkesville, on the east, and roughly parallels U.S. Route 460. The corridor passes through several small towns in a largely rural region. Much of the immediate vicinity of the corridor is heavily wooded. The two bridges cross, in a southeasterly-northwesterly direction, the low-lying flood plain of the Appomattox River. Conifers and deciduous trees forest the area to either side of the crossing, while small shrubs vegetate the cleared land around the bridge piers. The 1914 bridge is sited slightly northeast of the 1854 remains and extends between two, steep, wooded bluffs. The railroad tracks were removed from the corridor in 2005, and the grade is currently covered in crushed stone. Wooden utility poles line much of the rail-bed.

April 2008: There are no secondary resources associated with this property.

Surveyor Assessment:

End Year: 1865

Date Source: Written Data Type: Historical Event

Notes: Union troops tried to burn bridge to block the Confederate retreat to Appomattox.

2004: 33-mile stretch of rail line that includes the pre-Civil War era High Bridge (with a new trestle dating to 1912) is being abandoned by Norfolk Southern. The corridor has strong Civil War connections and the bridge, though the trestle is a replacement, is a wellknown landmark and was regularly painted and photographed from the 1850s forward.

RTD article, 10/27/2004: "On April 6, 1865, Union forces tried to burn the bridge to block the Confederate retreat to Appomattox. Confederate cavalry saved the bridge, and the next day Confederate forces crossed the bridge and succeeded in burning the four western sections, one of which fell into the river. Union troops crossed the river on the lower wagon bridge.'

2007: Soon to be converted to the new High Bridge Trail State Park, for use by the general public for a number of non-motorized activities, including hiking, running, bicycling and horseback riding. Decking and side rails will be added to High Bridge, and the track will be removed for the trail along the course of the entire 31 mile park.

April 2008:

Surveyor Recommendation: Legacy

Ownership

Ownership Category Ownership Entity

Virginia Department of Conservation and Recreation State Govt

Primary Resource Information

June 09, 2020 Page: 1 of 3 Architectural Survey Form

Resource Category:TransportationResource Type:Rail-RelatedNR Resource Type:StructureHistoric District Status:No DataDate of Construction:1854Date Source:Written Data

Historic Time Period: Antebellum Period (1830 - 1860)

Historic Context(s): Commerce/Trade, Industry/Processing/Extraction, Military/Defense, Technology/Engineering,

DHR ID: 006-5007

Other DHR ID: No Data

Transportation/Communication

Other ID Number: No Data

Architectural Style: No Discernable Style

Form: No Data
Number of Stories: No Data
Condition: Good
Threats to Resource: Development

Architectural Description:

2004: 33-mile stretch of railroad between Pamplin and Burkeville. Rail line includes High Bridge, about 15 minutes east of Farmville by rail. Built in 1854 of wooden stone piers.

2007: 31-mile stretch of rail line was transferred to the state from Norfolk Southern, for use as a rails-to-trails connecting Pamplin to Burkeville, running through Prospect, Farmville, High Bridge and Rice.

April 2008: The 608-acre district encompasses the 33.5-mile stretch of abandoned railroad corridor that extends between the towns of Pamplin and Burkeville, passing through Farmville, Rice, and Prospect. The corridor includes the site of two architecturally- and historically-significant bridges that cross the Appomattox River and a major Civil War battle.

Secondary Resource Information

Historic District Information

Historic District Name: High Bridge Trail State Park

Local Historic District Name: No Data
Historic District Significance: No Data

CRM Events

Event Type: NRHP Nomination

DHR ID: 006-5007
Staff Name: Andre, Elizabeth
Event Date: 4/9/2008

Staff Comment
No Data

Event Type: DHR Staff: Potentially Eligible

 DHR ID:
 006-5007

 Staff Name:
 DHR

 Event Date:
 7/1/2004

Staff Comment

Project Review

Marc Holma presenting:

Norfolk & Southern Railroad, Appomattox and Nottoway counties, DHR Project Review File Number 2004-0835, DHR File Number 006-5007. The resource, a 33 mile stretch of the Norfolk & Southern railroad that includes the pre-Civil War –era High Bridge (with a new trestle dating to

June 09, 2020 Page: 2 of 3

Architectural Survey Form Other DHR ID: No Data

1912) is being abandoned by Norfolk & Southern. The corridor has strong Civil War connections, and the bridge – though the trestle is a replacement – is a well-known landmark and was regularly painted and photographed from the 1850s forward. The committee recommends that the corridor is potentially eligible for listing for its Civil War associations and its role in the transportation history of the Commonwealth.

DHR ID: 006-5007

Bibliographic Information Bibliography: No Data Property Notes: No Data

June 09, 2020 Page: 3 of 3



7/22/2020

ECS Mid-Atlantic LLC Alexandra Moon 7670 Enon Drive Suite 101 Roanoke, VA 24019

RE: Request for Consulting Party Status on USDA RD Moran Solar I Project (Rice, VA)

Dear Ms. Moon,

Thank you for contacting us regarding the proposed project in Prince Edward County, VA.

The Monacan Indian Nation is a federally recognized sovereign tribe, headquartered on Bear Mountain in Amherst County. Citizens of the Nation are descended from Virginia and North Carolina Eastern Siouan cultural and linguistic groups, and our ancestral territory includes Virginia west of the fall line of the rivers, sections of southeastern West Virginia, and portions of northern North Carolina. At this time, the active Monacan consultation areas include:

Virginia: Albemarle, Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Bland, Buchanan, Buckingham, Campbell, Carroll, Charlotte, Clarke, Craig, Culpepper, Cumberland, Dickenson, Floyd, Fluvanna, Franklin, Frederick, Giles, Goochland, Grayson, Greene, Halifax, Henry, Highland, Lee, Loudoun, Louisa, Madison, Mecklenburg, Montgomery, Nelson, Orange, Page, Patrick, Pittsylvania, Powhatan, Prince Edward, Pulaski, Rappahannock, Roanoke, Rockbridge, Rockingham, Russell, Scott, Shenandoah, Smyth, Tazewell, Warren, Washington, Wise, and Wythe Counties, and all contiguous cities.

West Virginia: Greenbrier, Mercer, Monroe, Pendleton, Pocahontas, and Summers Counties.

North Carolina: Alamance, Caswell, Granville, Orange, Person, Rockingham, Vance, and Warren Counties.

At this time, the Nation does not wish to actively participate in this consultation project, because:

| | This project is outside our ancestral territory |
|---|--|
| X | The project's impacts are anticipated to be minimal |
| | The project is more closely related to, which should be contacted to participate in consultation |
| | The tribal office does not currently have the capacity to participate in this project |
| | Other: |



MONACAN INDIAN NATION

However, the Nation requests to be contacted if:

- Sites associated with native history may be impacted by this project;
- Adverse effects associated with this project are identified;
- Human remains are encountered during this project;
- Unanticipated native cultural remains are encountered during this project;
- Other tribes consulting on this project cease consultation; or
- The project size or scope becomes larger or more potentially destructive than currently described.

Please do not make any assumptions about future consultation interests based on this decision, as priorities and information may change. We request that you send any future consultation communications in electronic form to TribalOffice@MonacanNation.com AND hard copy to PO Box 960, Amherst, VA 24521. We appreciate your outreach to the Monacan Indian Nation and look forward to working with you in the future.

Respectfully,

Chief Kenneth Branham Monacan Indian Nation

Appendix XI: Air Quality



You are here: EPA Home > Green Book > Current Nonattainment Counties for All Criteria Pollutants

Current Nonattainment Counties for All Criteria Pollutants

Data is current as of November 30, 2020

The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005. The asterisk (*) indicates only a portion of the county is included in the designated nonattainment area (NA).

Download National Dataset of all designated areas (currently nonattainment, maintenance, revoked):

dbf | xls | Data dictionary (PDF)

Listed by State, County, NAAQS (Classification, if applicable)

Alexandria city 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Arlington County 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Fairfax County 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Fairfax city 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Falls Church city 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Loudoun County 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Manassas Park city 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Manassas city 8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal) Prince William County

8-Hour Ozone (2015) Washington, DC-MD-VA - (Marginal)

VIRGINIA



You are here: EPA Home > Green Book > National Area and County-Level Multi-Pollutant Information > Virginia Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Virginia Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of November 30, 2020

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

 * The 1997 Primary Annual PM-2.5 NAAQS (level of 15 μ g/m 3) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

| Change the State: | |
|-------------------|----|
| VIRGINIA • | GO |

| Important No | tes | | Download | d National Datas | set: dbf xls | Data | a dictionary | (PDF) |
|--------------------|--|-------------------------|----------------------------|------------------------------------|---------------------|--------------------------------|----------------------|-----------------------------------|
| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
| VIRGINIA | | | | | | | | |
| Alexandria city | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | 11 | Severe-15 | Whole | 139,966 | 51/510 |
| Alexandria city | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 139,966 | 51/510 |
| Alexandria city | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 139,966 | 51/510 |
| Alexandria city | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 139,966 | 51/510 |
| Alexandria city | Carbon Monoxide (1971) | Washington, DC-MD-VA | 92 93 94 95 | 03/15/1996 | Moderate <= 12.7ppm | Whole | 139,966 | 51/510 |
| Alexandria city | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 139,966 | 51/510 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|------------------------|--|--|----------------------------|------------------------------------|---------------------|--------------------------------|----------------------|-----------------------------------|
| Arlington County | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 207,627 | 51/013 |
| Arlington County | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | 11 | Moderate | Whole | 207,627 | 51/013 |
| Arlington County | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 207,627 | 51/013 |
| Arlington County | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 207,627 | 51/013 |
| Arlington County | Carbon Monoxide (1971) | Washington, DC-MD-VA | 92 93 94 95 | 03/15/1996 | Moderate <= 12.7ppm | Whole | 207,627 | 51/013 |
| Arlington County | PM-2.5 (1997)- | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 207,627 | 51/013 |
| Charles City County | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Part | 62 | 51/036 |
| Charles City County | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 7,256 | 51/036 |
| Chesapeake city | 1-Hour Ozone (1979)- NAAQS | (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 222,209 | 51/550 |
| Chesapeake city | 8-Hour Ozone | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 222,209 | 51/550 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|--------------------------|--|-----------------------------|----------------------------|------------------------------------|----------------|--------------------------------|----------------------|-----------------------------------|
| Chesterfield County | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 316,236 | 51/041 |
| Chesterfield County | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 316,236 | 51/041 |
| Colonial Heights city | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 17,411 | 51/570 |
| Colonial Heights city | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 17,411 | 51/570 |
| Fairfax County | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 1,081,726 | 51/059 |
| Fairfax County | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 1,081,726 | 51/059 |
| Fairfax County | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 1,081,726 | 51/059 |
| Fairfax County | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 1,081,726 | 51/059 |
| Fairfax County | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 1,081,726 | 51/059 |
| Fairfax city | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | 11 | Severe-15 | Whole | 22,565 | 51/600 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|-----------------------|--|--|----------------------------|------------------------------------|----------------|--------------------------------|----------------------|-----------------------------------|
| Fairfax city | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 22,565 | 51/600 |
| Fairfax city | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 22,565 | 51/600 |
| Fairfax city | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 22,565 | 51/600 |
| Fairfax city | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 22,565 | 51/600 |
| Falls Church city | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 12,332 | 51/610 |
| Falls Church city | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 12,332 | 51/610 |
| Falls Church city | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 12,332 | 51/610 |
| Falls Church city | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 12,332 | 51/610 |
| Falls Church city | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 12,332 | 51/610 |
| Fredericksbur city | 8-Hour | Fredericksburg, VA | 04 05 | 01/23/2006 | Moderate | Whole | 24,286 | 51/630 |
| Gloucester County | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 36,858 | 51/073 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|-------------------|--|--|-----------------------|------------------------------------|----------------|--------------------------------|-------------------|-----------------------------------|
| Hampton city | 1-Hour Ozone (1979)- NAAQS revoked | (Hampton Roads), VA | 9293949596 | 07/28/1997 | Marginal | Whole | 137,436 | 51/650 |
| Hampton city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 137,436 | 51/650 |
| Hanover County | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 99,863 | 51/085 |
| Hanover County | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 99,863 | 51/085 |
| Henrico County | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 306,935 | 51/087 |
| Henrico County | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 306,935 | 51/087 |
| Hopewell city | NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 22,591 | 51/670 |
| Hopewell city | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 22,591 | 51/670 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|-------------------------|--|--|----------------------------|------------------------------------|---------------------|--------------------------------|----------------------|-----------------------------------|
| Isle of Wight County | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 35,270 | 51/093 |
| James City County | 1-Hour Ozone (1979)- NAAQS revoked | (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 67,009 | 51/095 |
| James City County | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 67,009 | 51/095 |
| Loudoun County | 1-Hour Ozone (1979)- NAAQS revoked | Washington | 92939495969798990001020304 | // | Severe-15 | Whole | 312,311 | 51/107 |
| Loudoun County | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 312,311 | 51/107 |
| Loudoun County | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 312,311 | 51/107 |
| Loudoun County | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 312,311 | 51/107 |
| Loudoun County | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 312,311 | 51/107 |
| Madison County | 8-Hour Ozone (1997)- NAAQS revoked | Madison and Page Cos (Shenandoah NP), VA | 04 05 | 02/02/2006 | Former Subpart 1 | Part | 237 | 51/113 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|-----------------------|--|--|----------------------------|------------------------------------|----------------|--------------------------------|----------------------|-----------------------------------|
| | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 14,273 | 51/685 |
| Manassas Park city | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 14,273 | 51/685 |
| Manassas Park city | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 14,273 | 51/685 |
| Manassas Park city | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 14,273 | 51/685 |
| | NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 14,273 | 51/685 |
| Manassas city | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 37,821 | 51/683 |
| Manassas city | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 37,821 | 51/683 |
| Manassas city | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 37,821 | 51/683 |
| Manassas city | 8-Hour Ozone (2015) | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 37,821 | 51/683 |
| Manassas city | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 37,821 | 51/683 |
| Newport News | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 180,719 | 51/700 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|-----------------|--|--|-----------------------|------------------------------------|---------------------|--------------------------------|----------------------|-----------------------------------|
| city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 180,719 | 51/700 |
| Norfolk city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 242,803 | 51/710 |
| Norfolk city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 242,803 | 51/710 |
| | 8-Hour Ozone (1997)- NAAQS revoked | Madison and Page Cos (Shenandoah NP), VA | 04 05 | 02/02/2006 | Former Subpart 1 | Part | 1,789 | 51/139 |
| Petersburg city | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 32,420 | 51/730 |
| Poquoson city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 12,150 | 51/735 |
| Poquoson city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 12,150 | 51/735 |
| city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 95,535 | 51/740 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|--------------------------|--|--|----------------------------|------------------------------------|----------------------------------|--------------------------------|-------------------|-----------------------------------|
| Portsmouth city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 95,535 | 51/740 |
| Prince George County | 8-Hour Ozone (1997)- NAAQS revoked | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 35,725 | 51/149 |
| | NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | // | Severe-15 | Whole | 402,002 | 51/153 |
| Prince William County | 8-Hour Ozone (1997)- NAAQS revoked | Washington, DC-MD-VA | 0405060708091011121314 | // | Moderate | Whole | 402,002 | 51/153 |
| Prince William County | 8-Hour Ozone (2008) | Washington, DC-MD-VA | 12 13 14 15 16 17 18 | 05/15/2019 | Marginal | Whole | 402,002 | 51/153 |
| Prince William County | 9 H211 | Washington, DC-MD-VA | 18 19 20 | // | Marginal | Whole | 402,002 | 51/153 |
| | PM-2.5 (1997)- NAAQS revoked | Washington, DC-MD-VA | 05 06 07 08 09 10 11 12 13 | 11/05/2014 * | Moderate | Whole | 402,002 | 51/153 |
| Richmond city | 1-Hour Ozone (1979)- NAAQS revoked | Richmond, VA | 92 93 94 95 96 | 12/17/1997 | Moderate | Whole | 204,214 | 51/760 |
| Richmond city | 8-Hour Ozone | Richmond- Petersburg, VA | 04 05 06 | 06/18/2007 | Marginal | Whole | 204,214 | 51/760 |
| Smyth County | 1-Hour Ozone (1979)- | Smyth Co, VA (White Top Mtn) | 92939495969798990001020304 | // | Rural Transport (Marginal) | Part | 0 | 51/173 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|------------------------|--|--|----------------------------|------------------------------------|----------------|--------------------------------|----------------------|-----------------------------------|
| Spotsylvania County | 8-Hour Ozone (1997)- NAAQS revoked | Fredericksburg, VA | 04 05 | 01/23/2006 | Moderate | Whole | 122,397 | 51/177 |
| Stafford County | 1-Hour Ozone (1979)- NAAQS revoked | Washington, DC-MD-VA | 92939495969798990001020304 | 11 | Severe-15 | Whole | 128,961 | 51/179 |
| Stafford County | 8-Hour Ozone (1997)- NAAQS revoked | Fredericksburg, VA | 04 05 | 01/23/2006 | Moderate | Whole | 128,961 | 51/179 |
| Suffolk city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 84,585 | 51/800 |
| Suffolk city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 84,585 | 51/800 |
| Virginia Beach city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 437,994 | 51/810 |
| Virginia Beach city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 437,994 | 51/810 |
| Williamsburg city | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 14,068 | 51/830 |

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|----------------------|--|--|-----------------------|------------------------------------|----------------|--------------------------------|-------------------|-----------------------------------|
| Williamsburg city | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 14,068 | 51/830 |
| York County | 1-Hour Ozone (1979)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 92 93 94 95 96 | 07/28/1997 | Marginal | Whole | 65,464 | 51/199 |
| York County | 8-Hour Ozone (1997)- NAAQS revoked | Norfolk- Virginia Beach- Newport News (Hampton Roads), VA | 04 05 06 | 06/01/2007 | Marginal | Whole | 65,464 | 51/199 |

Important Notes

| Discover. | Connect. | Ask. |
|-----------|----------|---------|
| | | Follow. |

2020-11-30

Appendix XII: Socio-Economic/ Environmental Justice



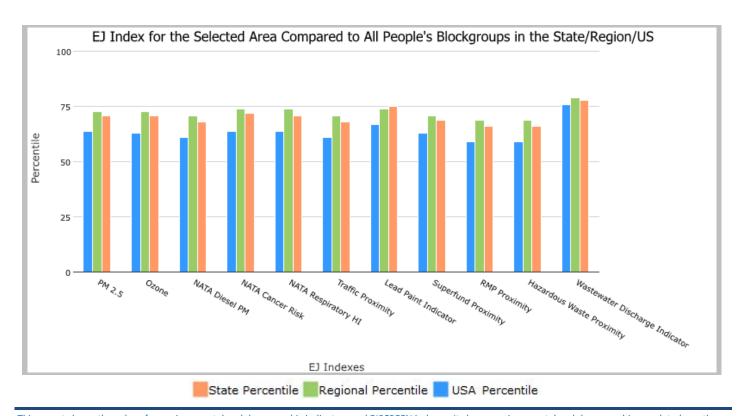
EJSCREEN Report (Version 2019)



1 miles Ring Centered at 37.228639,-78.272605, VIRGINIA, EPA Region 3

Approximate Population: 73 Input Area (sq. miles): 3.14

| Selected Variables | State Percentile | EPA Region Percentile | USA Percentile | | |
|---|---------------------|--------------------------|-------------------|--|--|
| EJ Indexes | | | | | |
| EJ Index for PM2.5 | 71 | 73 | 64 | | |
| EJ Index for Ozone | 71 | 73 | 63 | | |
| EJ Index for NATA* Diesel PM | 68 | 71 | 61 | | |
| EJ Index for NATA* Air Toxics Cancer Risk | 72 | 74 | 64 | | |
| EJ Index for NATA* Respiratory Hazard Index | 71 | 74 | 64 | | |
| EJ Index for Traffic Proximity and Volume | 68 | 71 | 61 | | |
| EJ Index for Lead Paint Indicator | 75 | 74 | 67 | | |
| EJ Index for Superfund Proximity | 69 | 71 | 63 | | |
| EJ Index for RMP Proximity | 66 | 69 | 59 | | |
| EJ Index for Hazardous Waste Proximity | 66 | 69 | 59 | | |
| EJ Index for Wastewater Discharge Indicator | 78 | 79 | 76 | | |



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

June 12, 2020 1/3



EJSCREEN Report (Version 2019)



1 miles Ring Centered at 37.228639,-78.272605, VIRGINIA, EPA Region 3

Approximate Population: 73 Input Area (sq. miles): 3.14



| Sites reporting to EPA | | | | |
|--|---|--|--|--|
| Superfund NPL | 0 | | | |
| Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF) | 0 | | | |

June 12, 2020 2/3



EJSCREEN Report (Version 2019)



1 miles Ring Centered at 37.228639,-78.272605, VIRGINIA, EPA Region 3

Approximate Population: 73 Input Area (sq. miles): 3.14

| Selected Variables | | State Avg. | %ile in State | EPA Region Avg. | %ile in EPA Region | USA Avg. | %ile in USA |
|---|-------|---------------|------------------|-----------------------|--------------------------|-------------|----------------|
| Environmental Indicators | | | | | | | |
| Particulate Matter (PM 2.5 in µg/m³) | 7.69 | 7.79 | 44 | 8.64 | 19 | 8.3 | 31 |
| Ozone (ppb) | 38 | 42.5 | 0 | 44.9 | 0 | 43 | 21 |
| NATA [*] Diesel PM (μg/m³) | 0.173 | 0.425 | 11 | 0.477 | <50th | 0.479 | <50th |
| NATA* Cancer Risk (lifetime risk per million) | 31 | 31 | 52 | 31 | <50th | 32 | <50th |
| NATA* Respiratory Hazard Index | 0.41 | 0.41 | 47 | 0.4 | 50-60th | 0.44 | <50th |
| Traffic Proximity and Volume (daily traffic count/distance to road) | | 570 | 23 | 640 | 20 | 750 | 20 |
| Lead Paint Indicator (% Pre-1960 Housing) | | 0.21 | 46 | 0.36 | 26 | 0.28 | 37 |
| Superfund Proximity (site count/km distance) | | 0.11 | 20 | 0.15 | 12 | 0.13 | 26 |
| RMP Proximity (facility count/km distance) | | 0.38 | 0 | 0.62 | 0 | 0.74 | 1 |
| Hazardous Waste Proximity (facility count/km distance) | | 0.66 | 3 | 1.3 | 2 | 4 | 5 |
| Wastewater Discharge Indicator (toxicity-weighted concentration/m distance) | | 0.8 | 46 | 30 | 31 | 14 | 43 |
| Demographic Indicators | | | | | | | |
| Demographic Index | 39% | 32% | 70 | 30% | 72 | 36% | 62 |
| Minority Population | | 37% | 49 | 32% | 61 | 39% | 52 |
| Low Income Population | | 26% | 82 | 28% | 81 | 33% | 72 |
| Linguistically Isolated Population | | 3% | 52 | 3% | 55 | 4% | 45 |
| Population With Less Than High School Education | | 11% | 86 | 11% | 87 | 13% | 80 |
| Population Under 5 years of age | | 6% | 10 | 6% | 10 | 6% | 10 |
| Population over 64 years of age | | 14% | 53 | 16% | 45 | 15% | 51 |

^{*} The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

June 12, 2020 3/3



QuickFacts

Prince Edward County, Virginia

QuickFacts provides statistics for all states and counties, and for cities and towns with a *population of 5,000 or more*.

Table

| All Topics | Prince Edward County, Virginia |
|---|-----------------------------------|
| Population estimates, July 1, 2019, (V2019) | 22,802 |
| ₹ PEOPLE | |
| Population | |
| Population estimates, July 1, 2019, (V2019) | 22,802 |
| Population estimates base, April 1, 2010, (V2019) | 23,363 |
| Population, percent change - April 1, 2010 (estimates base) to July 1, 2019, (V2019) | -2.4% |
| Population, Census, April 1, 2010 | 23,368 |
| Age and Sex | |
| Persons under 5 years, percent | 4 .8% |
| Persons under 18 years, percent | 1 6.0% |
| Persons 65 years and over, percent | 1 7.0% |
| Female persons, percent | ▲ 50.0% |
| Race and Hispanic Origin | |
| White alone, percent | ▲ 63.4% |
| Black or African American alone, percent (a) | ▲ 32.8% |
| American Indian and Alaska Native alone, percent (a) | ▲ 0.3% |
| Asian alone, percent (a) | 1 .4% |
| Native Hawaiian and Other Pacific Islander alone, percent (a) | ▲ 0.1% |
| Two or More Races, percent | ▲ 2.0% |
| Hispanic or Latino, percent (b) | ▲ 3.0% |
| White alone, not Hispanic or Latino, percent | ▲ 61.2% |
| Population Characteristics | |
| Veterans, 2015-2019 | 1,265 |
| Foreign born persons, percent, 2015-2019 | 5.1% |
| Housing | |
| Housing units, July 1, 2019, (V2019) | 9,501 |
| Owner-occupied housing unit rate, 2015-2019 | 64.4% |
| Median value of owner-occupied housing units, 2015-2019 | \$159,700 |
| Median selected monthly owner costs -with a mortgage, 2015-2019 | \$1,150 |
| Median selected monthly owner costs -without a mortgage, 2015-2019 | \$354 |
| Median gross rent, 2015-2019 | \$765 |
| Building permits, 2019 | 49 |
| Families & Living Arrangements | |
| Households, 2015-2019 | 7,185 |
| Persons per household, 2015-2019 | 2.45 |
| Living in same house 1 year ago, percent of persons age 1 year+, 2015-2019 | 87.0% |
| Language other than English spoken at home, percent of persons age 5 years+, 2015-2019 | 6.7% |
| Computer and Internet Use | 5.1 70 |
| | 78.0% |
| Households with a computer, percent, 2015-2019 Households with a broadband Internet subscription, percent, 2015-2019 | 66.7% |
| | 00.1 % |
| Education | 00.004 |
| High school graduate or higher, percent of persons age 25 years+, 2015-2019 | 86.0% |
| Bachelor's degree or higher, percent of persons age 25 years+, 2015-2019 | 26.8% |
| Health | |
| With a disability, under age 65 years, percent, 2015-2019 | 10.3% |
| Persons without health insurance, under age 65 years, percent | 1 2.7% |
| Economy | |
| In civilian labor force, total, percent of population age 16 years+, 2015-2019 | 47.2% |
| In civilian labor force, female, percent of population age 16 years+, 2015-2019 | 48.6% |
| Total accommodation and food services sales, 2012 (\$1,000) (c) | 49,916 |
| Total health care and social assistance receipts/revenue, 2012 (\$1,000) (c) | 135,037 |
| Total manufacturers shipments, 2012 (\$1,000) (c) | D |

| Total merchant wholesaler sales, 2012 (\$1,000) (c) | 4′ |
|--|------------|
| Total retail sales, 2012 (\$1,000) (c) | 390 |
| Total retail sales per capita, 2012 (c) | \$16 |
| Transportation | |
| Mean travel time to work (minutes), workers age 16 years+, 2015-2019 | |
| Income & Poverty | |
| Median household income (in 2019 dollars), 2015-2019 | \$4 |
| Per capita income in past 12 months (in 2019 dollars), 2015-2019 | \$2 |
| Persons in poverty, percent | A 2 |
| BUSINESSES | |
| Businesses | |
| Total employer establishments, 2018 | |
| Total employment, 2018 | |
| Total annual payroll, 2018 (\$1,000) | 24 |
| Total employment, percent change, 2017-2018 | |
| Total nonemployer establishments, 2018 | |
| All firms, 2012 | |
| Men-owned firms, 2012 | |
| Women-owned firms, 2012 | |
| Minority-owned firms, 2012 | |
| Nonminority-owned firms, 2012 | |
| Veteran-owned firms, 2012 | |
| Nonveteran-owned firms, 2012 | |
| ⊕ GEOGRAPHY | |
| Geography | - |
| Population per square mile, 2010 | |
| Land area in square miles, 2010 | 3 |
| FIPS Code | |

About datasets used in this table

Value Notes



Estimates are not comparable to other geographic levels due to methodology differences that may exist between different data sources.

Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geographies statistically indistinguishable. Click the Quick Info 🛈 icon to the row in TABLE view to learn about sampling error.

The vintage year (e.g., V2019) refers to the final year of the series (2010 thru 2019). Different vintage years of estimates are not comparable.

Fact Notes

- Includes persons reporting only one race
- (a) (b) Hispanics may be of any race, so also are included in applicable race categories Economic Census - Puerto Rico data are not comparable to U.S. Economic Census data

Value Flags

- Either no or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest or upper int open ended distribution.
- Suppressed to avoid disclosure of confidential information
- Fewer than 25 firms
 Footnote on this item in place of data . FN
- Data for this geographic area cannot be displayed because the number of sample cases is too small.
- NA Not available
- Suppressed; does not meet publication standards
- Not applicable
- Value greater than zero but less than half unit of measure shown

QuickFacts data are derived from: Population Estimates, American Community Survey, Census of Population and Housing, Current Population Survey, Small Area Health Insurance Estimates, Small Area Income and F Estimates, State and County Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits.

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Appendix XIII: DEQ Scoping Letters

Geotechnical • Construction Materials • Environmental • Facilities

Ms. Valerie Fulcher Environmental Program Specialist Office of Environmental Impact Review P.O. Box 1105 Richmond, VA 23218

December 18, 2020

Subject: United States Department of Agriculture (USDA) – Rural Development (RD)

DEQ Scoping Letter Moran Solar 1 Project

Piney Grove Road, Rice, Prince Edward County, Virginia

Dear Ms. Fulcher:

Holocene Clean Energy is in the process of performing an environmental review pursuant to the National Environmental Policy Act for the USDA, Rural Development in order that it may assess the environmental impacts of the construction of an approximate 18.8 acre solar farm on a portion of a larger 99.63 acre property in Prince Edward County, Virginia. The project is being proposed to provide clean renewable energy to surrounding electric utility customers in support of Governor Northam's and the General Assembly's clean energy mandate. Project components include the installation of photovoltaic panel arrays ground-mounted on singleaxis tracking solar racking equipment. The project will also include the construction of an inverter and control unit, a perimeter fence to enclose the arrays, vegetative buffers/screening, and necessary stormwater management BMPs. The solar panel array itself will include approximately 61 rows of panels and is anticipated to generate approximately 3.8 MW of DC power and 3 MW AC power. Interconnection to the electrical grid will be completed by the electrical company sometime in the future as part of a second, separate project and will undergo required reviews at that time. No on-site lighting will be present after construction. The disturbance of land will be limited to 18.8 acres (leased area) during construction. The site is currently an open field with some scrubby areas; tree clearing is not proposed. The final project area will include 16.1 fenced acres with the remaining acreage being associated with roadway setbacks. Enclosed is a U.S. Geological Survey map that depicts the proposal's location and a site plan that depicts the proposal's construction activities and a description of the work involved.

Holocene Clean Energy requests that your office review the proposal as it pertains to construction activities and potential impacts to environmental resources such as wetlands, erosion and sediment control, storm water management, air quality, solid and hazardous waste

management, pollution prevention, pesticide/herbicide management and any other important State natural resources that may occur in the project area. Please provide any recommendations you may have to mitigate or avoid these impacts.

We would appreciate a response as soon as practicable as the construction timeline for this project is somewhat expedited and any attention the Department can pay to this matter would be greatly appreciated by the Applicant. If you need any further information or wish to discuss the project, please contact Alexandra Moon at 540-362-2000.

Sincerely,

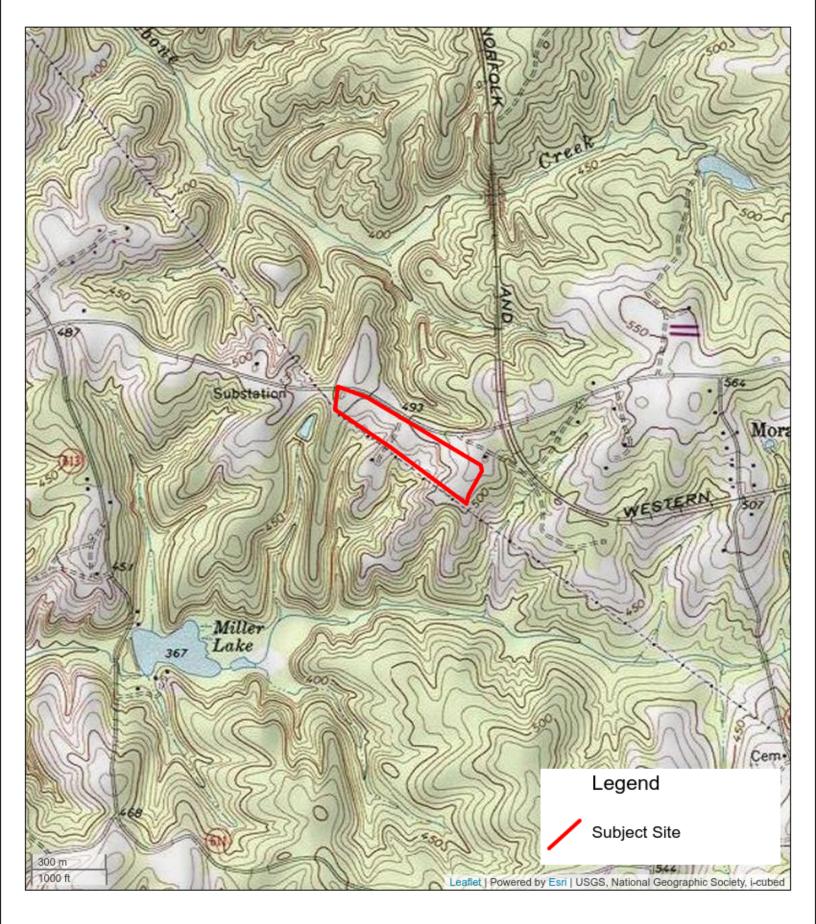
Alexandra Moon

Senior Project Manager ECS Mid-Atlantic, LLC

aleyalua Moon

Enclosure(s): USGS Topographic Map

Proposed Site Plan

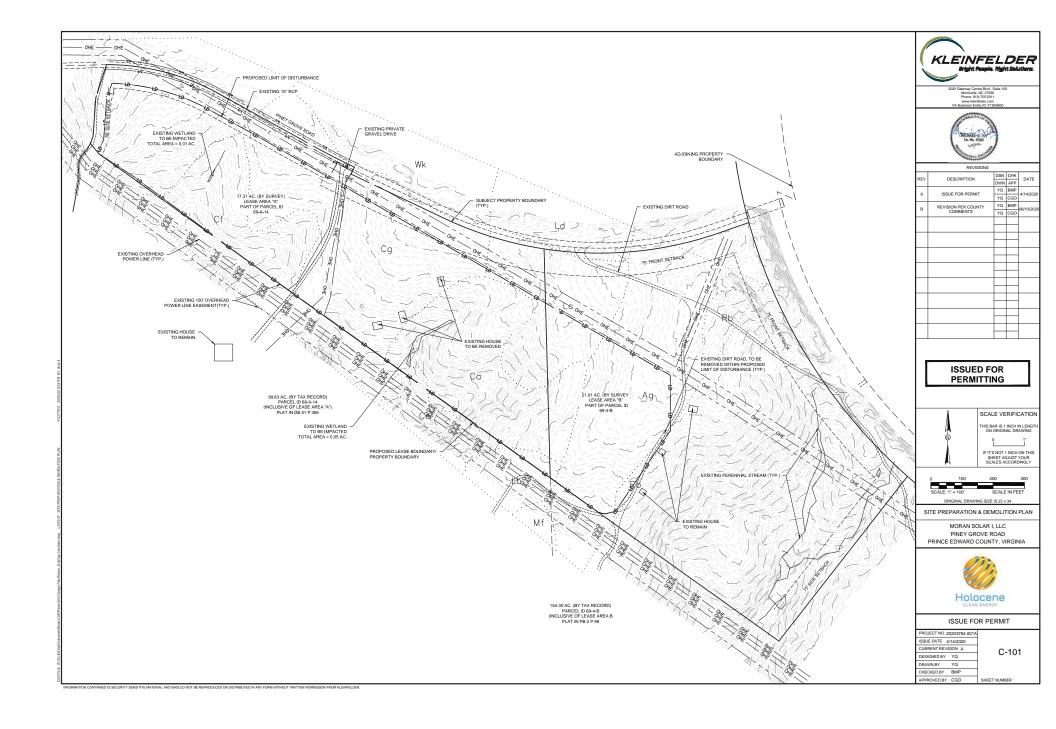




Moran I Solar Piney Grove Road Rice, Virginia 23966 ECS Project No. 47:8304-C









COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

December 18, 2020

David K. Paylor Director

(804) 698-4000 1-800-592-5482

Alexandra Moon Senior Project Manager ECS Mid-Atlantic, LLC 7670 Enon Drive, Suite 101 Roanoke, Virginia 24019 AMoon@ecslimited.com

RE: Scoping Response: Moran Solar 1 Project; Piney Grove Road, Rice, Prince Edward County, Virginia

Dear Ms. Moon:

Matthew J. Strickler

Secretary of Natural Resources

This letter is in response to the scoping request for the above-referenced project.

As you may know, the Department of Environmental Quality, through its Office of Environmental Impact Review (DEQ-OEIR), is responsible for coordinating Virginia's review of federal environmental documents prepared pursuant to the National Environmental Policy Act (NEPA) and responding to appropriate federal officials on behalf of the Commonwealth.

DOCUMENT SUBMISSIONS

In order to ensure an effective coordinated review of the NEPA document, notification of the NEPA document and federal consistency documentation should be sent directly to OEIR. We request that you submit one electronic to eir@deq.virginia.gov (25 MB maximum) or make the documents available for download at a website, file transfer protocol (ftp) site or the VITA LFT file share system (Requires an "invitation" for access. An invitation request should be sent to eir@deq.virginia.gov.).

The NEPA document should include U.S. Geological Survey topographic. We strongly encourage you to issue shape files with the NEPA document. In addition, project details should be adequately described for the benefit of the reviewers.

ENVIRONMENTAL REVIEW UNDER THE NATIONAL ENVIRONMENTAL POLICY ACT: PROJECT SCOPING AND AGENCY INVOLVEMENT

As you may know, NEPA (PL 91-190, 1969) and its implementing regulations (Title 40, *Code of Federal Regulations*, Parts 1500-1508) requires a draft and final Environmental Impact Statement (EIS) for federal activities or undertakings that are federally licensed or federally funded which will or may give rise to significant impacts upon the human environment. An EIS carries more stringent public

participation requirements than an Environmental Assessment (EA) and provides more time and detail for comments and public decision-making. The possibility that an EIS may be required for the proposed project should not be overlooked in your planning for this project. Accordingly, we refer to "NEPA document" in the remainder of this letter.

While this Office does not participate in scoping efforts beyond the advice given herein, other agencies are free to provide scoping comments concerning the preparation of the NEPA document. Accordingly, we are providing notice of your scoping request to several state agencies and those localities and Planning District Commissions, including but not limited to:

Department of Environmental Quality:

- o DEQ Regional Office
- Air Division
- o Office of Wetlands and Stream Protection
- o Office of Local Government Programs
- o Division of Land Protection and Revitalization
- Office of Stormwater Management

Department of Conservation and Recreation

Department of Health

Department of Agriculture and Consumer Services

Department of Game and Inland Fisheries

Virginia Marine Resources Commission

Department of Historic Resources

Department of Mines, Minerals, and Energy

Department of Forestry

Department of Transportation

DATA BASE ASSISTANCE

Below is a list of databases that may assist you in the preparation of a NEPA document:

• DEQ Online Database: Virginia Environmental Geographic Information Systems

Information on Permitted Solid Waste Management Facilities, Impaired Waters, Petroleum Releases, Registered Petroleum Facilities, Permitted Discharge (Virginia Pollution Discharge Elimination System Permits) Facilities, Resource Conservation and Recovery Act (RCRA) Sites, Water Monitoring Stations, National Wetlands Inventory:

- o www.deq.virginia.gov/ConnectWithDEQ/VEGIS.aspx
- DEQ Virginia Coastal Geospatial and Educational Mapping System (GEMS)

Virginia's coastal resource data and maps; coastal laws and policies; facts on coastal resource values; and direct links to collaborating agencies responsible for current data:

- o http://128.172.160.131/gems2/
- MARCO Mid-Atlantic Ocean Data Portal

The Mid-Atlantic Ocean Data Portal is a publicly available online toolkit and resource center that consolidates available data and enables users to visualize and analyze ocean resources and human

use information such as fishing grounds, recreational areas, shipping lanes, habitat areas, and energy sites, among others.

http://portal.midatlanticocean.org/visualize/#x=-

73.24&y=38.93&z=7&logo=true&controls=true&basemap=Ocean&tab=data&legends=false&layers=true

• DHR Data Sharing System

Survey records in the DHR inventory:

- o www.dhr.virginia.gov/archives/data_sharing_sys.htm
- DCR Natural Heritage Search

Produces lists of resources that occur in specific counties, watersheds or physiographic regions:

- o www.dcr.virginia.gov/natural_heritage/dbsearchtool.shtml
- DGIF Fish and Wildlife Information Service

Information about Virginia's Wildlife resources:

- o http://vafwis.org/fwis/
- Total Maximum Daily Loads Approved Reports
 - o https://www.deq.virginia.gov/programs/water/waterqualityinformationtmdls/tmdl/tmdlde-velopment/approvedtmdlreports.aspx
- Environmental Protection Agency (EPA) Comprehensive Environmental Response,
 Compensation, and Liability Information System (CERCLIS) Database: Superfund Information Systems

Information on hazardous waste sites, potentially hazardous waste sites and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL:

- o www.epa.gov/superfund/sites/cursites/index.htm
- EPA RCRAInfo Search

Information on hazardous waste facilities:

- o <u>www.epa.gov/enviro/facts/rcrainfo/search.html</u>
- EPA Envirofacts Database

EPA Environmental Information, including EPA-Regulated Facilities and Toxics Release Inventory Reports:

- o <u>www.epa.gov/enviro/index.html</u>
- EPA NEPAssist Database

Facilitates the environmental review process and project planning: http://nepaassisttool.epa.gov/nepaassist/entry.aspx If you have questions about the environmental review process, please feel free to contact me (telephone (804) 698-4204 or e-mail bettina.rayfield@deq.virginia.gov).

I hope this information is helpful to you.

Sincerely,

Bettina Rayfield, Program Manager Environmental Impact Review and

Long-Range Priorities

Alexandra Moon

From: Warren, Arlene <arlene.warren@vdh.virginia.gov>

Sent: Monday, December 21, 2020 12:51 PM

To: Alexandra Moon

Cc: rr Environmental Impact Review

Subject: Re: NEW SCOPING REQUEST Moran Solar 1 Project, Prince Edward County

Follow Up Flag: Follow up Flag Status: Flagged

Project Name: NEW SCOPING REQUEST Moran Solar 1 Project

Project #: N/A UPC #: N/A

Location: Rice, Prince Edward Co.

VDH – Office of Drinking Water has reviewed the above project. Below are our comments as they relate to proximity to **public drinking water sources** (groundwater wells, springs and surface water intakes). Potential impacts to public water distribution systems or sanitary sewage collection systems **must be verified by the local utility.**

There are no public groundwater wells within a 1-mile radius of the project site.

There are no surface water intakes located within a 5-mile radius of the project site.

The project is within the watershed of the following public surface water sources:

| PWS ID | | |
|---------|----------------------------------|-------------------------------|
| Number | System Name | Facility Name |
| 4041035 | APPOMATTOX RIVER WATER AUTHORITY | LAKE CHESDIN RAW WATER INTAKE |
| 3670800 | VIRGINIA-AMERICAN WATER CO | APPOMATTOX RIVER |

Best Management Practices should be employed, including Erosion & Sedimentation Controls and Spill Prevention Controls & Countermeasures on the project site.

The Virginia Department of Health – Office of Drinking Water appreciates the opportunity to provide comments. If you have any questions, please let me know.

Best Regards,

Arlene Fields Warren

GIS Program Support Technician

Office of Drinking Water

Virginia Department of Health

109 Governor Street

On Fri, Dec 18, 2020 at 2:00 PM Fulcher, Valerie < <u>valerie.fulcher@deq.virginia.gov</u>> wrote: **Good afternoon—attached is a request for scoping comments on the following:**

Moran Solar 1 Project Piney Grove Road, Rice, Prince Edward County, Virginia

If you choose to make comments, please send them directly to the project sponsor (Moon@ecslimited.com) and copy the DEQ Office of Environmental Impact
Review: eir@deq.virginia.gov. We will coordinate a review when the environmental document is completed.

DEQ-OEIR's scoping response is also attached.

If you have any questions regarding this request, please email our office at eir@deq.virginia.gov.

Valerie

--

Valerie A. Fulcher, CAP, OM, Admin/Data Coordinator Senior

Department of Environmental Quality

Environmental Enhancement - Office of Environmental Impact Review

1111 East Main Street

Richmond, VA 23219

804/698-4330

Email: Valerie.Fulcher@deq.virginia.gov

https://www.deq.virginia.gov/permits-regulations/environmental-impact-review

OUR ENFORCEABLE POLICIES HAVE BEEN UPDATED FOR 2020: https://www.deq.virginia.gov/permits-regulations/environmental-impact-review/federal-consistency

For program updates and public notices please subscribe to Constant Contact: https://lp.constantcontact.com/su/MVcCump/EIR

This message has been analyzed by Deep Discovery Email Inspector.